

JEFFERSON COUNTY DEPARTMENT OF HEALTH

1400 Sixth Avenue, South • P.O. Box 2648 • Birmingham, AL 35202-2648 • 205.933.9110 • www.jcdh.org

Environmental Health Services Wayne Studyvin, P.E., M.S.C.E., Director Frank Phillips, P.E., Assistant Director

November 17, 2008

Certified Mail Return Receipt Requested

Mr. Mark Poling, Manager, Engineering, Environmental Compliance ABC Coke, A Division of Drummond Company, Inc. P.O. Box 10246 Birmingham, Alabama 35202

Dear Mr. Poling:

Subject: Renewal Title V Major Source Operating Permit for ABC Coke, A Division of Drummond

Enclosed is the final Major Source Operating Permit for your facility.

If you have any questions, please contact Corey Masuca of the air program staff at 930-1595.

Sincerely,

Wayne Studyvin, Director

Environmental Health Services

/cmm

Enclosure

a language state that a state of a service is About the self-defendable englishmen JEFFERSON COUNTY DEPARTMENT OF HEALTH

AIR POLLUTION PROGRAM

MAJOR SOURCE OPERATING PERMIT

Permittee

STATE OF THE PROPERTY OF THE PARTY.

VBC Coke, A Division of Drummond Company, Inc. - Coke/L tilities Plant

Landing

Mahama Street and Huntsville Avenue

Farrant, Mabama 35217

Parimi No

4-07-0001-02

I-summer Daid

Noticimper 17, 2008

Lagrantion Date

National of Business.

Manufacturing of Coke and Coke By-Products, Utilities Production

Emissions Unit No.	Fini I I i i
1.9.1	Boiler No. 9, NSPS Part 60, Subpart Db
1 # 1 2	Coke Hattery No. 6 - Coking and Charging, NESHAP, Part 63 Subpart CCCCC
¥):	Coke Battery Social Coking and Charging, NESHAP, Part 63, Subpart CCCCC
(3).1	Coke Battery No. 1. Coking and Charging, NESHAP, Part 6 + Support 1. Subpart CCCCC
1412	Coke By products Recovery Plant with Gas Blanketing, NESHAP, Part 63. Subparts FF, L. and V.
1917	Undertire Stack No. 4 Associated with Coking Batteries Nos. 5 and 6, N1 SHAP Part 63. Subpart CCCCC
· MIK	Underfue Stack No. 1. Associated with Coking Battery No. 1, NESHAP, Part 63. Subpart CCCCC.
1114	
0(9	South Coke Quenching Tower, NESHAP, Part 63, Subpart CCCCC Boiler No. 8
(121)	Boder N., 7
121	North Coke Openching Lower MCCUAR D.
0.41	North Coke Quenching Tower, NESHAP, Part 63, Subpair CCCCC. Flare
113.5	Coke Pushing Operations of Coking Batteries Nov. 3, 5, and 6, NI SHAP, Part 63. Surpart CCCCC
0 5.1	Ammominin Sulfate Manufacture, NSPS, Part 50, Subpart PP

Constraint a community of the conditioned space by sometimes as the community of the action of the field if the Art P. I form a control Rings and Regulations, Section 18 of the Matthew Art Pollsman Connect Act of 1971, Art Society Region: Session 1974, Sestion 12-28 (notine Walsania Vir Probation Cornel Vet a so-ended trials) of the foregoing District Health Charles of the Green and the Alabama Demanded of the program Management and the street for each from them community to them to estimate the contract to the common from a first contract to the contract of the contract to th soft in the constructive examples ded faciety. For a dad to an third damage association of the term at non-state and it is a secondand the one considered best designed and the design of the second considered and the second cons ne sur squarable de Act des ouestages a serbetesen Courte prior and des me act details as a compare de Courte de regime in Things much in each of a significant systems, it is observed the party

A right Street military

State Horselder

March and M. Paget of their CMAN Health mager



GENERAL PERMIT CONDITIONS

In addition to compliance with Alabama Air Pollution Control Act Number 769 (Regular Session, 1971) and Act Number 612 (Regular Session, 1982) and with all applicable Air Pollution Control Rules and Regulations, the conditions which are listed below are hereby contained in and made a part of this permit:

No.	Federally Enforceable General Permit Conditions	D
1	Demittions	Regulations
	For the purposes of this Major Source Operating Permit, the following terms will have the meanings ascribed to in this permit:	1.3 40 <u>CFR</u> 60 40 <u>CFR</u> 61
	"40 <u>CFR</u> 60" shall be an acronym for Part 60 of Title 40 of the <u>Code of Federal Regulations</u> , as the same may be amended or revised.	40 CFR 63 40 CFR 68 40 CFR 82
	"40 <u>CFR</u> 61" shall be an acronym for Part 61 of Title 40 of the <u>Code of Federal Regulations</u> , as the same may be amended or revised.	
	"40 <u>CFR</u> 63" shall be an acronym for Part 63 of Title 40 of the <u>Code of Federal Regulations</u> , as the same may be amended or revised.	
	"40 <u>CFR</u> 68" shall be an acronym for Part 68 of Title 40 of the <u>Code of Federal Regulations</u> , as the same may be amended or revised.	
	"40 <u>CFR</u> 82" shall be an acronym for Part 82 of Title 40 of the <u>Code of Federal Regulations</u> , as the same may be amended or revised.	
1	"Act" shall mean the Clean Air Act, as amended, 42 U.S.C. 7401, et seq.	
	"ADEM" shall be an acronym for the Alabama Department of Environmental Management.	70
1.	'Air Permit" shall mean any permit issued pursuant to Chapter 2 of the Rules and Regulations.	Si
g	Annual Capacity Factor" shall mean the ratio between the actual heat input to a steam generating unit from the fuel being combusted during a calendar year and the potential heat input to the steam generating unit had it been operated for 8,760 hours during a calendar year t maximum steady state design heat input capacity.	
"]	BTX" shall mean benzene, toluene, and xylene.	
cc	Bypass/Bleeder Stack" shall mean a stack, duct, or offtake system that is opened to the mosphere and used to relieve excess pressure by venting raw coke oven gas from the ollecting main to the atmosphere from a by-product coke oven battery, usually during mergency conditions.	
"E	Battery Stack" shall mean the stack that is the point of discharge to the atmosphere of the embustion gases from a battery's underfiring system.	
	Coke By-product Recovery Plant" shall mean any plant designed and operated for the paration and recovery of coal tar derivatives (by-products) evolved from coal during the king process of a coke oven battery.	
	oke Oven Battery" shall mean a group of ovens connected by common walls, where coal dergoes destructive distillation to produce coke. A coke oven battery includes by-product I non-recovery processes.	

	Federally Enforceable General Permit Conditions Definitions continued:	Regulations
		1.3
	"COG" shall mean coke oven gas.	40 CFR 60
	350	40 CFR 61
	"Coke Plant" shall mean a facility that produces coke from coal in either a by-product coke oven battery or a non-recovery coke oven battery	40 CFR 63
	oven battery or a non-recovery coke oven battery.	40 CFR 68
	concern ballery.	40 CFR 82
	"Collecting Main" shall mean any apparatus that is connected to one or more offtake systems and that provides a passage for conveying gases under a city.	
	and that provides a passage for conveying gases under positive pressure from the by-product	
- 1	coke oven battery to the by-product recovery system.	
	product recovery system.	
	"Department" shall mean the Jefferson County Department of Health.	
	"Emissions Unit" shall mean any part or activity of a stationary source that emits or has the	
	potential to emit any regulated air pollutant or any pollutant listed under Section 112(b) of the	
	Act. Act.	
	WED AND A STATE OF THE STATE OF	
	"EPA" shall be an acronym for the U. S. Environmental Protection Agency.	
	"Emergency" shall mean any situation arising from sudden and reasonably unforeseeable	
1.	events beyond the control of the facility, including acts of God. These are situations that	
1'	require immediate corrective action(s) to restore normal operation, and that cause the facility to	
1:	exceed a technology based emission limitation set by the permit, due to unavoidable increases	
1.	n emissions attributable to the emergency. An emergency shall not include exceedances of the	
1 1	permit emission limitations caused by improperly designed equipment, lack of preventative	
1"	naintenance, careless or improper operation, or operator error.	
- 1		
fi	Fossil Fuel" shall mean natural gas, petroleum, coal, and any form of solid, liquid, or gaseous uel derived from such materials for the purpose of greatier.	
	nel derived from such materials for the purpose of creating useful heat.	
"1	Foundry Coke" shall mean coke that is produced from raw materials with less than 26 percent	
V	platile material by weight and that is subject to a raw materials with less than 26 percent	
V	platile material of the raw materials (by recipital) of the raw ma	1
m	aterial of all raw material (by weight) is the weighted average percent volatile	1
	(b) Height changed to the coke oven per coking cycle.	
"F	Foundry Coke By-product Recovery Plant" shall mean a coke by-product recovery plant	
CO	onnected to coke batteries whose annual coke production is at least 75 percent foundry coke.	
	broadening it least 75 percent foundry coke.	1
"I-	rugitive Emissions" shall mean those emissions, which could not reasonably pass through a	
Sta	ack, chimney, vent, or other functionally equivalent opening.	
100		
"H	AP" shall be an acronym for hazardous air pollutant.	
	D .	
of	azardous Air Pollutant" shall mean any air pollutant listed in or pursuant to Section 112(b)	
	one risk.	

1	Federally Enforceable General Permit Conditions Definitions continued:	Regulation
	Continued.	1.3
	"In Benzene Service" shall mean a piece of equipment, other than an exhauster, that either contains or contacts a fluid (liquid or gas) that is at least 10 percent benzene by weight or any exhauster that either contains or contacts a fluid (liquid or gas) at least 1 percent benzene by weight as determined by the provisions of 40 <u>CFR</u> 61.137(b). The provisions of 40 <u>CFR</u> 61.137(b) also specify how to determine that a peice of equipment is not in benzene service.	40 <u>CFR</u> 60 40 <u>CFR</u> 61 40 <u>CFR</u> 63 40 <u>CFR</u> 63 40 <u>CFR</u> 82
	"Incinerator" shall mean an enclosed air pollution control device that uses controlled flame combustion to convert combustible materials to noncombustible gases.	
	"In VHAP Service" shall mean that a piece of equipment either contains or contacts a fluid (liquid or gas) that is at least 10 percent VHAP by weight.	
	"NESHAP" shall be an acronym for National Emission Standard for Hazardous Air Pollutants.	
1	"NSPS" shall be an acronym for New Source Performance Standard.	
I .	'Operating Permit' shall mean any permit issued pursuant to Chapter 18 of the Rules and Regulations.	
d	Oven" shall mean a chamber in the coke oven battery in which coal undergoes destructive listillation to produce coke.	
**	Permittee" shall mean the holder of a permit issued by the Department.	
"I th	Pushing" shall mean the process of removing the coke from the oven. Pushing begins with the first detectable movement of the coke mass and ends when the quench car enters the state of the coke mass and ends when the quench car enters the	7
	Quenching" shall mean the wet process of cooling (wet quenching) the hot incandescent coke direct contact with water that begins when the quench car enters the quench tower and ends nen the quench car exits the quench tower.	
"Q de	Quench Tower" shall mean the structure in which hot incandescent coke in the quench car is ludged or quenched with water.	
"R Co	ules and Regulations" shall mean the Jefferson County Board of Health Air Pollution ontrol Rules and Regulations, as the same may be amended or revised.	
	hort Battery" shall mean a by-products coke oven battery with ovens of less than 6 meters in ght pursuant to NESHAP, Part 63, Subpart L or less than 5 meters in height pursuant to SHAP, Part 63, Subpart CCCCC.	
	baking" shall mean that period in the coking cycle that starts when an oven is dampered off he collecting main and vented to the atmosphere through an open standpipe prior to pushing ends when the coke pushing begins.	
utili	urce" shall mean any building, structure, facility, installation, article, machine, equipment, ice, or other contrivance that emits or may emit any air contaminant. Any activity, which zes abrasives or chemicals for cleaning, or any other purpose (such as cleaning the exterior uildings), which emits air contaminants, shall be considered a source.	

	Definitions continued:	
	"Standpipe" shall mean an apparatus on the oven that provides a passage for gases from an oven to the collecting main or to the atmosphere when the oven is dampered off the collecting main and the standpipe cap is opened. "Stationary Source" shall mean any building, structure, facility, or installation that emits or may emit any regulated air pollutant as defined in Part 18.1 of the Rules and Regulations or any pollutant listed in Appendix D of the Rules and Regulations.	ng 40 <u>CFR</u> 63 40 <u>CFR</u> 68
	"Steam Generating Unit" shall mean a device that combusts any fuel or byproduct/waste to produce steam or to heat water or any other heat transfer medium. This term includes any generating unit that combusts fuel and is part of a cogeneration system or a combined cycle system. This term does not include process heaters as they are defined in subpart 40 CFR	m
	"TDS" shall be an acronym for total dissolved solids.	
	"VHAP" shall be an acronym for volatile hazardous air pollutant.	
	"VOC" shall be an acronym for volatile organic compound.	
2	In addition, the individual definitions as specified in each applicable rule, regulation, or standard shall be utilized where applicable. Applicability The Major Samuel.	
	The Major Source permitted herein shall include all of the equipment and operations of the manufacturing of coke and coke by-products, coke oven batteries, gas-fired steam generators, coke quenching towers, coke pushing controls, underfire stacks, by-pass bleeder flare, particulate emissions collection and control systems, raw materials handling operations, raw materials storage areas, product handling operations, storage tanks, in-plant vehicles, plant roads, and parking areas. The facility's particulate, visible emissions are subject to the restrictions of Chapter 6 of the Rules and Regulations. The facility's VOC/HAP emissions are subject to the restrictions of Chapter 8 of the Rules and Regulations. The facility's sulfur The coke manufacturing operations are subject to the requirements of NESHAP regulations under 40 CFR 61, 40 CFR 63, and Chapters 2, 4, 6, and 8 of the Rules and Regulations. All of the boilers are subject to the requirements of Chapters 6 and 7 of the Rules and Regulations. Boiler No. 9 is subject to the requirements of NSPS regulation under 40 CFR 60 in addition to the requirements of Chapters 6 and 7 of the Rules and Regulations. The facility is subject to payment of the Operating Permit emissions fees of Chapter 16 and to the major source Operating Permit requirements of Chapter 18 of the Rules and Regulations.	Chapter 1 Chapter 2 Chapter 4 Chapter 6 Chapter 7 Chapter 8 Chapter 13 Chapter 14 Chapter 16 Chapter 18 40 CFR 61 40 CFR 63 40 CFR 68 40 CFR 82
	This Operating Permit is issued based on provisions contained in all existing Rules and Regulations. In the event amendments, revisions or additions are made to these Rules and Regulations, it shall be the responsibility of the permit holder (hereinafter called the permittee in this permit) to comply with such new Rules and Regulations. Additions and revisions to the conditions in this Operating Permit will be made by the Department, if necessary, to assure that Authority	AL Act 769 AL Act 612
	Nothing in this Operating Permit or conditions appended thereto shall negate any authority granted to this Department or the Health Officer pursuant to Alabama Air Pollution Control Act No. 769 (Regular Session, 1971) and Act No. 612 (Regular Session, 1982) or any regulations promulgated thereunder.	AL Act 769 AL Act 612

5	Federally Enforceable General Permit Conditions	
)		Regulation
	Upon notification by this Department, the permittee shall submit an Air Pollution Emission Reduction Plan in a format approved by this Department.	Chapter 4
	Reduction Plan in a format approved by this Department concerning air contaminant emission reductions to be taken during declared episodes	18.2.8(b)
	reductions to be taken during declared episodes.	s
6	Dypass of Control Equipment Problems	
	The permittee shall not bypass without prior approval 6	1.12
	control device. The permittee shall not shut down any air pollution control device unless such	18.2.4
	shutdown is accompanied by the	18.2.8(a)
	shutdown is accompanied by the corresponding shutdown of the respective source that the device is intended to control.	10.2.0(a)
7		4
/	Shutdown of Control Equipment	
1	In the case of shutdown of air pollution control equipment for scheduled maintenance for a period greater than 24 hours, the intent shall be reported to this D.	1.12
- 1	period greater than 24 hours, the intent shall be reported to this Department at least 24 hours	18.2.4
1	prior to the planned shutdown in accordance with the requirements of Section 1.12.1 of the Rules and Regulations.	18.2.8(a)
	Rules and Regulations.	1
8	Transfer	
		18.2.6
1	This permit is not transferable, whether by operation of law or otherwise, either from one location to another, from one piece of equipment to	18.13.1(a)(5)
- 1	location to another, from one piece of equipment to another or from one except as provided in Subparagraph 18 13 (6)(5). Set a provided in Subparagraph 18 13 (6)(5).	10.13.1(a)(3)
		1
		-
	The Department at any time may require a source emissions test. The methods for such testing shall be in accordance with procedures established by 40 CFB 51.	1.9
	shall be in accordance with procedures established by 40 <u>CFR</u> 51, 40 <u>CFR</u> 60, 40 <u>CFR</u> 61, and	18.2.5
	40 <u>CFR</u> 63, as the same may be amended or revised.	18.2.8
		40 <u>CFR</u> 61
0	Notice of Testing	40 CFR 63
1	The permittee shall notify this Department in the contract in	1.9.1
1 8	nectual conduction of any source emissions test. This notice shall state the source to be tested,	18.2.5
11	he proposed time of the test the rest that the proposed time of the test the source to be tested.	40 CFR 63
1	the proposed time of the test, the testing date(s), and the proposed testing methods and procedures. Refer to 40 CFR 63.7(b).	W <u>E11(</u> 05)
	Provisions for Testing	
1	The permittee of all the state of the permittee of all the state of th	1.10.2
1.	The permittee shall provide each point of emission with sampling ports, ladders, stationary	1.10.3
P	latforms, and other safety equipment to facilitate testing performed in accordance with	18.2.5
		18.2.8(c)
T	he permittee shall submit the results of all emissions tests in duplicate in bound copies to this	18.2.8(c)
		40 <u>CFR</u> 63
0	peration and Maintenance of Control	
A	. The permittee shall coup each particulate matter	18.2.8(a)
	differential measuring device to measure it	40 <u>CFR</u> 61
		40 <u>CFR</u> 63
		The state of the s
13		
الم	All air pollution control devices and capture systems for which this permit is issued shall be maintained and operated at all times in a great state of the state of the systems for which this permit is issued shall	
1		
		3
1	the manufact of do to illimitative the emission of our content	1
C.	The perintilee shall conduct routine inspections on all and the	1
	results and repair work performed on the nettering of all control equipment. All inspections	9
		1
	records shall be kept in a permanent form suitable for inspection in a format approved by this Department and shall be retained for 5 years after the date of the record.	1

14	Federally Enforceable General Permit Conditions	
	The major source permitted by	Regulation
	The major source permitted herein is subject to and shall comply with the requirements under the first of the Rules and Regulations. The permittee shall not cause, suffer, allow, or permittee and to be used, constructed, conveyed, or stored; or a building, its appurtenance or a road to be used, constructed, altered, repaired or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions all include, but not be limited to, the following: A. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land; B. Application of asphalt, oil, water, or suitable chemicals on dirt roads, material stock piles and other surfaces which create airborne dust problems; and C. Installation and use of hoods, fans, and fabric filters (or other suitable control devices) to enclose and vent the handling of dust materials. Adequate containment methods shall be employed during sandblasting or other similar operations.	it ces, ions
t	The permittee shall not cause or permit the discharge of visible fugitive dust emissions beyon the lot line of the property on which the emissions originate.	d
fi an pi al re	When dust, fumes, gases, mist, odorous matter, vapors, or any combination thereof escape from a building or equipment in such a manner and amount as to cause a nuisance or to violate rocessing, handling and storage are done be tightly closed and ventilated in such a way that a moval or destruction of air contaminants before discharge to the open air.	I.
Re me	ecords of all required monitoring shall be retained for a period of 5 years from the date of easurement including all calibration and maintenance records and all original strip-chart cordings and copies of all reports.	1.9 18.5.3(b)(1)(vii)
Re of con inst respall r	ports of required monitoring shall be submitted to the Department by January 31 and July 31 each year unless notified otherwise. For such semi-annual reports required for the purposes demonstrating compliance with any annual rolling averages included in this permit, the annual period shall be the 6-months immediately preceding the reporting date. All ponsible official as defined in Paragraph 18.1.1(y) of the Rules and Regulations must sign reports.	1.9 18.1.1(y) 18.5.3(c)(1) 40 <u>CFR</u> 63
Dev Dev devi devi	viations viations from permit requirements shall be reported within 2 working days of such interest including those attributable to upset conditions, the probable cause of said interest in any corrective actions or preventive measures that were taken.	18.5.3(c)(2) 40 <u>CFR</u> 63
In ca rema	nse of legal challenge to any portion or permit condition of this Operating Permit, the uninder of the permit conditions shall continue in force.	18.5.5
The and I Rules permiapplic	major source (permittee) permitted herein must comply with all conditions of the Rules Regulations. Noncompliance with a permit will constitute a violation of the Act and the stand Regulations and may result in an enforcement action; including but not limited to, it termination, revocation and reissuance, or modification; or denial of a permit renewal	18.5.6
The p	poliance Defense ermittee shall not use as a defense in an enforcement action, that maintaining compliance permit conditions or the Rules and Regulations would have required halting or reducing	18.5.7

21	Federally Enforceable General Permit Conditions Termination for Cause	72
	This Operating Permit may be modified, revoked, reopened and reissued or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance or termination, or of a notification of a planned change or anticipated	Regulation 18.5.8
22	No property rights of any sort or any exclusive privilege are conveyed through the issuance of this Operating Permit.	18.5.9
23	Requests for Information The permittee shall furnish to the Department within 30 days, or for such other reasonable time as the Department may set, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon receiving a specific request, the permittee shall also furnish to the Department copies of records required to be kept by the	1
	Payment of Fees The permittee must have paid all fees required by the Rules and Regulations or this Operating Permit is not valid. Payment of Operating Permit fees required under Part 16.4 of the Rules and Regulations shall be made on or before the date specified under Section 16.5.1 of the Rules and Regulations of each year. Failure to make payment of fees within 30 days of the specified date shall cause the assessment of a late fee of 3 percent (3% of the original fee) per month or fraction thereof.	16.4 16.5 18.5.11
	Economic Incentives No permit revision shall be required under any approved economic incentives, marketable permit emissions trading and other similar programs or processes for changes that are provided for in the Operating Permit.	18.5.12
26 <u>1</u> a a a A A A B	Alternative Operating Scenarios If the permittee has applied for alternate operating scenarios and the Department deems the alternative operating scenarios identified in the application for this Operating Permit acceptable, then the permittee shall: A. Record the change from one operating scenario to another in a log at the permitted facility. The recording of the change shall be made contemporaneously with the change, and the log shall contain the scenario under which the facility is currently operating. B. Ensure that terms and conditions of each alternative operating scenario meet all of the requirements of this Operating Permit, as well as, the Rules and Regulations.	18.5.13
of con in re of wi	specifically requested by the applicant (permittee), the Department may authorize the trading femissions increases and decreases in the permitted facility solely for the purposes of emplying with a federally enforceable emissions cap that is established in the permit dependent of otherwise applicable requirements, to the extent that the applicable quirements provide for trading such increases and decreases without a case-by-case approval each emissions trade. The terms and permit conditions in the Operating Permit shall comply that the requirements in Section 18.5.14 of the Rules and Regulations.	18.5.14 Appendix F
Ce with		18.13.2

No. 29	Federally Enforceable	General Permit Conditions	
29	Entry and Inspections	conditions conditions	Regulation
	The permittee shall allow the Department, Al presentation of credentials and other documents	DEM, EPA, or authorized representative upon	18.2.9(d) 18.7.2
	ionowing:	of required by law to conduct the	10.7.2
	is conducted or where records are kept pur B. Review and/or copy at reasonable times are	a source is located or emissions related activity	
	B. Review and/or copy at reasonable times an conditions;	y records kept pursuant to the permit	
	C. Inspect at reasonable times any facilities, ed the permit; and	Ollinment practices are	
	the permit; and D. Sample or monitor at recently at	quient, practices or operations required by	
	D. Sample or monitor at reasonable times subsassuring compliance with the permit or oth	stances or parameters for the purpose of	
30	Compliance Certification	or applicable requirements.	
	A compliance certification shall be a second	annually within 30 days of the anniversary of the	18.4.9
	collution sources with all provide a	means for monitoring the compliance of its air	18.7.1
1.1	elerenced within this permit	or work practices listed or	18.7.5(c) 18.7.5(d)
	A. The compliance certification shall include	2 0	18.7.5(d)
	certification;	of this permit that is the basis of the	
	2. The compliance status;		
	3. Whether compliance has been continuous or	intermittent;	
	over the reporting period appoint	opliance status of the source, currently and	
	 Such other facts as the Department may require. 	ire to determine the compliance status of the	
B	. The compliance certification shall be submitted.	ted to the following 2 agencies:	
	Jefferson County Department of Health Air and Radiation Protection Division	EPA Region IV	
	P.O. Box 2648	Air & EPCRA Enforcement Branch	
R	Birmingham, AL 35202-2648	or Forsyth Street SW	
R	Copening for Cauco	Atlanta, GA 30303-8909	
ex	nder any of the following circumstances, this O piration of the permit:	perating Permit will be reopened prior to the	18.13.5
A.	Additional applicable requirements under the	GI	
	Additional applicable requirements under the permittee with a remaining permit term of 3 completed not later than 18 months after pro-	Clean Air Act become applicable to the	1
	completed not later than 18 months after pronsuch reopening is required if the effective data	bulgation of the applicable requirement	
	such reopening is required if the effective date which this permit is due to expire.	e of the requirement is later than the date on	
В.	Additional requirements (including expenses	**************************************	
	Additional requirements (including excess em an affected source under the acid rain program excess emissions offset plans shall be deeped.	Uses approved to the description of the second applicable to	
0	excess emissions offset plans shall be deemed. The Department, ADEM, or EPA determines	to be incorporated into this parmit	
C.	The Department, ADEM, or EPA determines or that inaccurate statements were made in out	that this permit contains a material mistake	-
1	terms or conditions of this permit	abilishing the emissions standards or other	
D.	The Administrator ADEM or the Department		
1	or revoked to assure compliance with the appli	determines that this permit must be revised	

32	Federally Enforceable Genral Permit Conditions	
52	A A = " Conditions	Regulation
l	A. An "emergency" means any situation arising from sudden and reasonable unforeseeable events beyond the control of the source, including acts of God which its control of the source.	18.11.2
	events beyond the control of the source including and reasonable unforeseeable	
	Immediate corrective action to actio	
	exceed a technology based and it is a polation, and that causes the source to	316
	exceed a technology-based emissions limitation under the Operating Permit, due to	1
	unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed.	. 1
	include noncompliance to the extent caused by improperly designed equipment, lack of	:
1	preventative maintenance, careless or improper operation, or operator error. B. Exceedances of emission limits during emergencies (c. 1).	
-	B. Exceedances of emission limits during emergencies (as defined above) at a facility may be exempted from being violations provided that one or more of the fall.	
- 4	exempted from being violations provided the	e
- 1	exempted from being violations provided that one or more of the following actions occur. 1. The permittee can identify the cause(s) of the appropriate that one or more of the following actions occur.	
- 1	1. The permittee can identify the cause(s) of the emergency;	
- 1	2. At the time of the emergency, the permitted facility was being properly operated;3. During the period of the emergency, the permittee took all.	
- 1	 During the period of the emergency, the permitted facility was being properly operated; minimize 	1
	infinitize	
	levels of emissions that exceeded the emission standards	
	levels of emissions that exceeded the emission standards, or other requirements in	
1	4. The permittee submitted notice of the	
1	4. The permittee submitted notice of the emergency to the Health Department within working days of the time when the emission limitations were experiment.	2
- 1	working days of the time when the emission limitations were exceeded due to the emergency. Such notice shall include those deviations at the exceeded due to the	
1	conditions as	
1	defined in the permit, the probable cause of said deviations, and any corrective	1
	actions or preventations, and any corrective	
	actions or preventative measures that were taken. Within 5 working days of the	
	emergency, a written documentation of what was reported in the notice of the emergency shall be submitted to the Department, and	
- 1	emergency shall be submitted to the Department; and	
- 1		
- 1	Emergency Log," which shall be maintained for s	
10	"Emergency Log," which shall be maintained for 5 years in a form suitable for inspection upon request by a representative of the Department.	
C.	This provision is in addition to any emergency or upset provision contained in any applicable requirement.	
	applicable requirement.	
D.	An emergency constitutes an arc	
No	Othing in this Operating Permit Shall Alter or Affect the following: The provisions of Section 303 of the Act (gween affect the following:	
A.	The provisions of Section 303 of the Act (emergency orders), including the authority of The liability of an entering the Administrator under that Section;	10.10.0
- 1	the Administrator and the Child gency orders) including the	18.10.3
		1
	requirements prior to or at the time of permit issuance;	1
C.	The applicable requirements of the acid rain issuance;	
1 -	The applicable requirements of the acid rain program, consistent with Section 408(a) of	
11).	The ability of EPA to obtain information for	
Du	ration, Expiration, and Renewal of Operating Permit	
AS	Ource's right to operate shall town:	18.4.3
time	ource's right to operate shall terminate upon the expiration of this Operating Permit unless a months, before the date of expiration or the Department best teles.	18.5.2
181	nonths, before the date of anxious	
SOU	months, before the date of expiration or the Department has taken final action approving the	18.12.2
Pari	rce's application for renewal by the expiration date. The expiration date of this Operating the nit is printed on the first page of the permit. Major Source Operation B.	
2 611	init is printed on the first page of the permit. Major Source Operating Permits are issued for period of 5 years except as provided under Paragraph 18.5.2(b) of the permits are issued for	
a lix	ed period of 5 years except as provided under Paragraph 18 5 200 Certaing Permits are issued for	
Regi	urations.	
Dist	lay and Availability of D.	
The	permittee shall keep this Operation by	18.2.2
wher	the source is located and shall make the permit available for inspection by any and all times at the site ons who may request to see it.	10.2.1
perso	ons who may request to see it.	

No. 36	Federally Enforceable General Permit Conditions Minor Permit Modifications	D. L.
30		Regulations
ે	Minor permit modifications procedures may be used only for those permit modifications that: A. Do not violate any applicable requirement:	18.13.3
	A. Do not violate any applicable requirement;	
	B. Do not involve significant changes to existing monitoring	
	requirements in the permit;	1
	C. Do not require or change a case-by-case determination	
	a visibility or increment analysis;	
	D. Do not seek to establish or change a permit term or made it	
		1
- 1	1. A federally enforceable emissions cap assumed to avoid classification as a Modification under any provision of title Victorial value of the Victorial Vic	
	2. An alternative emissions limit approved pursuant to regulations promulgated under section [12(i)(5) of the Act	1
	section 112(i)(5) of the Act.	
	E. Are not modifications under any provision of the vices	
	F. Are not required by Part 18.12 of the Rules and Regulations to be processed as a significant modification.	
	significant modification.	
37	Acceptance of Permit	
- 1	The permittee is required to bring the appearing of	18.2.4
	18.2.8(a) of the Rules and Regulations. Commencing construction or operation of the source shall be deemed acceptance of all conditions executed the control of the source.	18.2.8(a)
100	shall be deemed acceptance of all conditions specified. An Operating Permit with revised	
	conditions may be issued upon receipt of a new application if the permittee demonstrates that	
	the source can operate within the standard of Paragraph 18.2.8(a) of the Rules and Regulations	
_	under the revised conditions.	
8	Construction Not In Accordance with Applications	
1.4	i the source permitted herein has not been construct it.	18.2.4(e)
(Operating Permit shall be revoked. No further application for an Operating Permit shall be eccepted until the source has been reconstructed in	
-	and with the state of the state	
R	evocation of Operating Permit	
T	his Operating Permit may be revoked for any of the following reasons:	1.9.2
174 35.65	The control of the Condition of the Cond	18.2.9
B	. I andre to establish and maintain such records, make analy	
1	and mountaing cumping or memode, and comple and complete in	
	The state of the such inclining at circh locations, interests at the such as t	1
C	and to comply with any Drovisions of any Departmental Administration	1
		1
D.	ratture to comply with the Rules and Regulations; or	
L.	For any other cause, after a hearing which actablishes in the interest	
1.00	Department, that continuance of the Operating Permit is not consistent with the purpose of the Act or the Rules and Regulations	in the
167	the Act or the Rules and Regulations.	10

40	Federally Enforceable General Permit Conditions Duty to Supplement or Correct an Application The permittee shall see the state of the permittee shall see the state of the s	Regulation
	The permittee shall submit any additional information to the Department to supplement or correct an application promptly after becoming aware of the need for additional or corrected information. The permittee must supply to the Department additional information concerning any new requirements, which have become applicable after a complete application has been filed but before a draft permit is released.	18.4.7
41	Permit Shield If the permittee has requested a permit shield in the permit application and the Department has granted the permit shield, the permit shield in the permit application and the Department has	18.10 s 18.13.3(f)
42	not extend to minor permit modifications. Significant Modifications Modifications that are significant modifications under the PSD (Part 2.4) or nonattainment (Part 2.5) regulations or are modifications under the NSPS (40 CFR 60) or NESHAPS (40 CFR 61 & 63) regulations must be incorporated in the Operating Permit using the requirement for sources initially applying for an Operating Permit, including those for applications, public parts 18.4 and 18.15 of the Rules and Regulations.	18.4 18.13.4 18.15
	Schedule of Compliance A. The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance. B. The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this Operating Permit. Progress Reports	18.4.8(h) 18.7.3
in Property A	If any air pollution source owned or operated by the permittee is not in compliance with the emissions limitations, standards and work practices listed or referenced within this permit, the permittee shall submit a progress report for that air pollution source. The first schedule of compliance shall be submitted within 3 months after the Operating Permit issuance date or not not not compliance. Subsequent reports shall be submitted every 6 months following the initial eport. The progress reports shall contain the following: A. Dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and/or dates when such activities, milestones or compliance were achieved. An explanation of why any dates in the schedule of compliance were not or will not be batement of Obnovious Oders.	18.4.8(h) 18.7.4
th en te	his Operating Permit is issued with the condition that, should obnoxious odors arising from e plant operations be verified by Department inspectors, measures to abate the odorous missions shall be taken upon a determination by this Department that these measures are chnically and economically feasible.	6.2.3
A ch or	new permit application must be made for new sources, replacements, alterations, or design anges which may result in the issuance of, or an increase in the issuance of, air contaminants, the use of which may eliminate or reduce or control the issuance of air contaminants.	2.1 18.4.2 18.13.3 18.13.4
tha per a fo	t may apply to this facility immediately from the effective date of the standards. The mittee shall notify the Department in writing within 2 working days of becoming subject to ederal MACT standard pursuant to Section 112 of the Act, as the same may be amended or ised. Where applicable, the Federal MACT standard will a work as the same may be amended or	40 CFR 63 2.1.3 14.5 18.4.8(h)(3) 18.7.6 40 CFR 63 Act 112(i)(3)

No 48	T CUCIAIIV Efforceable Conovel Down A C 211	T 20 1
40		Regulation
	If the permittee has any substance listed pursuant to Paragraph 3 of Section 112(r) stored within the facility permitted herein, the permittee de la language de la languag	112 (r)
	within the facility permitted herein, the permittee shall comply with the requirements of Section 112(r) of the Act to prevent accidental releases of	40 <u>CFR</u> 68
	Section 112(r) of the Act to prevent accidental releases of any substance listed pursuant to	
	Paragraph 3 of Section 112(r) as the same many his substance listed pursuant to	
	Paragraph 3 of Section 112(r), as the same may be amended or revised, or any other extremel hazardous substance.	y
49	Housekeeping Requirements	
	The permittee shall not cause and the	2.1.3
	The permittee shall not cause or allow the disposal of waste VOC/HAP materials in sewers, open containers, or in any manner that would result in	2.1.1(g)
50		2.1.1(g)
70000	Title VI Requirements (Refrigerants)	18.1.1(e)(10)
	Any facility having appliances or refrigeration equipment, including air conditioning equipment, which use Class Lor Class II over a deal of the conditioning	10.1.1(e)(10)
	equipment, which use Class I or Class II ozone-depleting substances such as	18.1.1(w)(4)
		40 <u>CFR</u> 82
	to the work practices, personnel certification requirements, and certified recycling and	
	recovery equipment specified in 40 <u>CFR</u> 82, Subpart F.	
	7. 140 person shall knowing v vent or otherwise vale	
	the environment during the repair, servicing, maintenance, or disposal of any such device except as provided in 40 CFR 82. Subpart F.	
	except as provided in 40 <u>CFR</u> 82, Subpart F.	
	B. The responsible official shall comply it.	
	B. The responsible official shall comply with all reporting and recordkeeping requirements of 40 CFR 82.166. Reports shall be submitted to the FPA.	
51	40 CFR 82.166. Reports shall be submitted to the EPA and the Department as required. Asbestos Demolition and Renovation	1
	Ashestos demolition and accountion	14.2.12
Í	Asbestos demolition and renovation activities are subject to the National Emission Standard for Asbestos in 40 CFR 61, Subpart M. To determine the application of the National Emission Standard	40 CED 61
	for Asbestos in 40 <u>CFR</u> 61, Subpart M. To determine the applicable requirements of the standard, the permittee shall inspect the affected part of the	40 <u>CFR</u> 61
- 1	standard, the permittee shall inspect the affected part of the facility permitted herein where the	
- 1	demolition or renovation operation will occur for the presence of asbestos, including Category I and Category II nonfriable asbestos containing materials and containing materials.	
	I and Category II nonfriable asbestos containing materials, prior to commencement of the	
	demolition or renovation operations. The permittee shall comply with all applicable sections of the standard, including notification requirements, emission control.	
	the standard, including notification requirements, emission control and waste disposal	
	procedures. The permittee shall ensure that anyone performing asbestos related work at the	
	facility permitted herein is trained and certified according to the ADEM's regulations for	ľ.
	Notification of Violations	
1.0	The permittee shall submit a report to the D	2.1.1(g)
a	The permittee shall submit a report to the Department within 2 working days after determining any deviations, violations or malfunctions of emissions or production permit restrictions and ny Rule or Regulation. The report shall include the probable of the permit restrictions and	2.1.3
a	ny Rule or Regulation. The report shall instantiate or production permit restrictions and	18.5.3(c)(2)
0	r malfunction and the corrective actions or preventive measures taken.	15 SSN 250
Δ	applicability of Subpart A of 40 CER 60 (Nepe p.	Breastonersone
T	The general provisions in Subpart A of 40 CFR 60 (NSPS Requirements) erein affected by the NSPS requirements in 40 CFR 80 are applicable to the facility permitted	40 CFR 60
h	erein affected by the NSPS requirements in 40 CFR Parts 60.	
T	pplicability of Subpart A of 40 CFR 61 and 63 (NESHAP Requirements)	40 CFR 61
		40 CFR 63
		TO CITY 03
W	/ork Practice Plan (NESHAP Requirement)	10 0000
1 11	ic periffilies shall submit a written work ment.	40 <u>CFR</u> 63
		63.306
	ic permittee must comply with the following age and	40 CFR 63
1 11		
1 11	required by Section 63.10(b) of the general provisions in Subpart A of 40 CFR 63,	

Permit Number 4-07-0001-02	Page 14
Annual Recordkeeping and Reporting (JCDH Requirement) The permittee shall submit by February 10th of each calendar year to this Department annual summary report for the previous calendar year in a format approved by this E of the following production information of the source permitted herein: A. For each battery, the total quantity in tons per year of raw materials coke and/or be charged, and any other material; B. For each battery, the total quantity in tons of coke produced; specify amounts in too both furnace and foundry; C. For each battery, the total quantity in tons of coke oven underfire gas combusted; D. Foundry and furnace coking times (in hours); E. Amount of coke oven gas flared; F. For each of the boilers Nos. 7, 8, and 9, where applicable, the amounts of coke oven natural gas combusted; G. For all battery components types (lids, offtakes, & doors), the annual average leaking percentages; H. Regarding coal handling, in addition to the number of executions performed for each of indicated processes, the total amounts in tons processed: - loading/unloading, - conveyor transfer, - crushing transfer, and - emissions control features; I. Regarding coke (furnace and foundry) handling, in addition to the number of execution performed for each of the indicated processes, the total amounts in tons processed: - loading/unloading, - screening, - conveyor transfer,	Department 8.26 40 CFR 61 40 CFR 63 Dons for In gas and Ing In h of the
- emissions control features; J. Regarding coal/coke storage piles, for each pile, the acres of storage and the number of active days. Indicate whether pile is coal or coke. Specify any emissions control featured to the control of the condition of the condition of the condition of the control of	f res. ront

- vehicle miles traveled one way,
- silt content percentage of unpaved road,
- road silting (g/m2),
- number of days with/precipitation above 0.01 inches, and
- surfactant usage (gal/sq. yard/mo.);
- L. For the each emissions unit type associated with the by-products recovery facility (tar decanters, tar storage tanks, tar-intercepting sumps, flushing liquor circulation tanks, lightoil sumps, light-oil condensers, light-oil decanters, wash-oil decanters, wash-oil circulation tanks, naphthalene processing, final coolers, final cooler cooling towers, benzene storage tanks, BTX storage tanks, light-oil storage tanks, excess ammonia-liquor storage tanks, pumps, valves, exhausters, pressure relief devices, sampling connection systems, closedvent systems, open-ended valves or lines, flanges, and other connectors, all of which are intended to operate in VOC or benzene service), list the number of emissions unit types.
- M. The quantity of all of the following fuels combusted and assign actual usage of fuels to the
 - i. Coke Oven Gas in million cubic feet, and
 - ii. Natural gas in million cubic feet;
- N. For each battery, the total number of ovens not captured during pushing; and
- O. The actual emissions of all regulated air pollutants as defined in Chapter 18 of the Rules and Regulations including all individual HAP emissions. The emissions shall be assigned to the emissions unit where the emissions occurred. Fugitive emissions shall be included in the report. The fugitive emissions shall include paved and unpaved road dust emissions. The vehicle miles driven on the paved and unpaved roads shall be included.

	Emission Factor Utilization Regarding future Title V emissions, ABC Coke shall utilize emission factors for coke production as listed in the Settlement Agreement (CV 0001852) entered into between the Jefferson County Department of Health and ABC Coke (May 1, 2000). Table 1 of the Settlement Agreement shall be utilized until more accurate data is made available by ABC Coke and approved in advance by the Jefferson County Department of Health and/or the USEPA.	2.1.3
--	---	-------

Emissions Unit No .:

100

Company:

ABC Coke

Source Description:

174 MMBTU/Hr Nebraska Designated Boiler No. 9 (This boiler is subject to

NSPS, Subpart Db, Standards of Performance for Industrial-Commercial-Institutional

Steam Generating Units)

Operating Schedule:

24 hours/day, 7 days/week, and 52 weeks/year

Pollutants Emitted:

Pollutant	Regulatory Emission Limit	Applicable
Visible Emissions (VE)	20 % Opacity	Standard
Particulate Matter (PM)	24.81 lb/hr	Section 6.1.1
Sulfur Dioxide (SO2)		Section 2.1.3
Sulfur Dioxide (SO2)	1.20 lb/MMBTU of Heat Input	Subpart Db
Carbon Monoxide (CO)	193.30 lb/hr	NSR
Volatile Organic Compounds	NA	NA
(VOC)	NA	NA

Pollution Control Device:

None

Continuous Emission Monitors:

NOx, and O2 or CO2

Continuous Compliance Determiner:

Daily Recordkeeping of Fuel Combusted

Maximum Heat Input Restricted to 174 MMBTU/hour

Coke Oven Gas Restricted to 5957 MMCF/year for Boilers 7, 8, 9, and

the Flare

Restricted to Coke Oven Gas/Natural Gas Combustion

Title V Monitoring:

Daily Visible Emissions Observation of Boiler Stack Daily Fuel Combustion Metering (± 1% Accuracy)

Monthly Sampling & Testing of Fuel Sulfur Content (COG) Monthly Sampling & Testing of Fuel Heat Content (COG)

EPA Reference Test Methods:

1, 2, 3, 4, 5, 6C, 7, 7E, 9, 10, 18, 25, 25A of 40 CFR 60, Appendix A

Reporting Requirements:

Permit Condition Nos. 14 and 17

Applicable Regulations:

Sections 2.1.3, 6.1.1 and 7.1.1

Parts 6.3 and 18.5

Chapters 2, 6, 7, 16 and 18

No.	Permit Conditions for Emissions Unit No. 001 Section 1 – Applicability	Regulation
1	Applicability Applicability	Guarion
•	The Emissions Unit, 174 MMBTU/hour boiler, permitted herein shall include any equipment, device, or contrivance and all appurtenances thereto, including ducts, breechings, fuel-feeding equipment, ash removal equipment, combustion controls, stacks and chimneys, and the combustion fuels used. The emissions unit is subject to Part 6.1, entitled "Visible Emissions," of the Rules and Regulations. The emissions unit is subject to the particulate emission rate allowed under Part 6.3, entitled "Fuel Burning Equipment," of the Rules and Regulations. The emissions unit is subject to Part 7.1, entitled "Fuel Combustion," of the Rules and Regulations. The emissions unit is subject to Chapter 18 of the Rules and Regulations	2.1.3 6.1 6.3 7.1 Chapter 18
2	Section 2 Emission, Equipment or Production Requirements and Limitations Subpart Db	
3	The Emissions Unit 001 permitted herein is subject to the requirements as listed in Subpart Db (Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units) 40 CFR60.	2.1.3 6.1.1 18.5 40 <u>CFR</u> 60
	Visible Emissions Restriction The Emissions Unit permitted herein is subject to and shall comply with the requirements under Section 6.1.1, "Visible Emissions Restrictions for Stationary Sources," of the Rules and Regulations. The permittee shall not cause or allow the discharge into the atmosphere from the emissions unit permitted herein any air contaminant of an equivalent opacity greater than that designated as 20% opacity, as determined by a 6-minute average; except, during one 6-minute period in any 60-minute period, the permittee may discharge into the atmosphere any air contaminant of an equivalent opacity not greater than that designated as 40% opacity. Compliance with the opacity standard in this condition shall be determined by conducting observations in accordance with Reference Method 9 in Appendix A of 40 CFR 60.	2.1.3 6.1.1 18.5
	Subpart Db-Opacity Monitor Waiver	
	The emissions unit is subject to the appoint at a day	40 <u>CFR</u> 60, Subpart Db
	 A. The permittee shall make visible emission observations in accordance with EPA Method 22 on a daily basis. The minimum observation time shall be 20 minutes per day; B. If any visible emissions are detected during the Method 22 observation period, the permittee shall make 20 minutes of additional observations 	
	C. If any individual 15-second Method 9 readings exceed 20% opacity, the permittee shall continue making readings until the opacity either drops below 20% for 8 consecutive 15-second readings or a violation of the	
	D. When violation(s) of the applicable opacity standard are identified, the permittee shall take immediate steps to identify the cause of the violation and bring the boiler back into compliance.	

5	Particulate Emissions Restriction	1212
	The Emissions Unit permitted herein is subject to and shall comply with the particulate emission rate restriction that is allowed under Part 6.3, entitled "Fuel Burning Equipment," of the Rules and Regulations. The permittee shall not cause or allow the emissions of particulate matter from the fuel-burning equipment permitted herein in excess of 0.142	2.1.3 6.3 18.5
	Reference Method 5 of Appendix A of 40 CFR 60, July 1, 2008, as the same may be amended or revised. For Title V monitoring requirements, the permittee shall demonstrate compliance with this emission limit by certifying to the Department in writing that only coke oven gas and natural gas is combusted in the emissions unit. This written certification shall be submitted biennially.	
6	Sulfur Oxides Emissions Restriction	2.1.3
	The Emissions Unit permitted herein is subject to and shall comply with the sulfur oxide	7.1.1
	The permittee shall not cause or allow the emissions of sulfur oxides, measured as sulfur dioxide, from the fuel-burning equipment permitted herein in excess of 1.2 pounds per million BTU of heat input as determined by EPA Reference Method 6C of Appendix A of 40 CFR 60, July 1, 2008, as the same may be amended or revised. For Title V monitoring requirements, the permittee shall collect monthly samples of calcagas.	18.5
	the coke oven gas for sulfur content by weight. The permittee shall also determine the heat content of the coke oven gas sampled. The emissions unit is restricted to combusting coke oven gas and natural gas.	
7	Combustion Fuel Restriction	2.12
	The Emissions Unit permitted herein is restricted to combusting coke oven gas/natural gas. This restriction shall be demonstrated by recording and maintaining a record of the first control of the combusting of	2.1.3 18.5
8	(within ± 1% accuracy) of each fuel combusted each calendar day. Heat Input Restriction	
	The Emissions Unit permitted herein shall not exceed 174,000,000 BTUs per hour of heat	2.1.3
	input. This restriction shall be demonstrated by recording and maintaining a record of the amounts (within ± 1% accuracy) of fuel combusted and time operated each calendar day.	18.5
)	1 - 10 Houre Review Collibustion File Restriction	2.1.0
	The permittee shall not cause or allow the Emissions Unit Nos. 001, 020, 019, and 031 (Boiler Nos. 7, 8, 9, and Flare) to exceed combusting 5,957 million (MM) cubic feet per year of coke oven gas in any 12-month period based on an annual rolling average as defined in Part 1.3 of the Rules and Regulations. This restriction shall be demonstrated by recording and maintaining a record of the amount (within ± 1% accuracy) of the shall be demonstrated by	2.1.3
	compasted in each other and time each boiler operated per calendar day	
0	Section 5 Compliance and Performance Test Methods and Procedures	Regulation
	The permittee shall determine compliance with the second state of	2.1,3 40 <u>CFR</u> 60
	Method 1: Sample and Velocity Traverses	
	Method 2: Determination of Stack Gas Velocity and Volumetric Flow Rate	
	Method 3: Gas Analysis for Carbon Monoxide, Oxygen Excess Air and Dry M. W.	
	Method 4: Determination of Moisture Content in Stack Gases	
1	Method 5: Determination of Particulate Emissions Method 6C: Determination of Salfan Divisions	
	Method 6C: Determination of Sulfur Dioxide Emissions Method 7: Determination of Nitrogen Oxide Finite Method 7: Determination Oxide Finite Method 7: Determination Oxide Finite Method 7: Determination Oxide Finite Method Oxide	
	Method 7: Determination of Nitrogen Oxide Emissions Method 9: Visual Determination of the Opacity of Emissions	
1	Tutwiler Method: Sulfur Content (H2S, hydrogen sulfide) in Gas Mixtures	
1	Tulwiler Method: Sulfur Content (H2S, hydrogen sulfide) in Can Minute	

	Section 4 – Continuous Emission Monitoring -CEMS	T
11	The permittee shall install, calibrate, maintain, and operate CEMS for measuring NO _x concentrations and either O ₂ or CO ₂ and shall record the output of the system in accordance with Section 60.48b of the subpart	40 CFR 60 Subpart Db
10	Section 5 Recordkeeping and Reporting Requirements	
12	NSPS Notification, Reporting, and Recordkeeping Requirements Where applicable, the permittee shall comply with the notification, reporting, and recordkeeping requirements of Subpart Db of 40 CFR 60.	40 <u>CFR</u> 60, Section 60.491
13	Startup, Shutdown, and Malfunction Records The permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the permitted unit berain.	2.1.3 18.5.3
5	In accordance with the combustion fuel restrictions listed in this permit, the permittee shall keep a monthly record of the amount (within ± 1% accuracy) of each fuel combusted and the time of operation per calendar day for the permitted unit heroic	2.1.3 18.5.3
,	Department Required Annual Report Requirement The permittee shall submit by February 10th of each calendar year to this Department an annual summary report for the previous calendar year in a format approved by this Department of the following production information of the emissions unit permitted herein: A. The actual hours of operation. The record of operational hours shall differentiate combusting coke oven gas and natural gas. B. The actual emissions (point and fugitive) of all regulated air pollutants as defined in Chapter 18 of the Rules and Regulations; C. The quantity of coke oven gas and natural gas burned in million cubic Feet; and D. The average monthly total sulfur content and heat content of the coke oven gas.	1.5.15 2.1.3 18.5.3

Emissions Unit No.:

002

Company:

ABC Coke

Source Description:

Coke Oven Battery No. 6

Charging, Coking, Soaking, Oven Doors, Lids, Offtake Systems, Collecting Mains,

Bleeder Flares, and Emergency Bleeder Flares

Operating Schedule:

24 hours/day, 7 days/week, and 52 weeks/year

Type and quantity of fuel used: COG

Pollutants Emitted:

Pollutant	Regulatory Emission Limit	
Visible Emissions (VE)	20% Opacity	Applicable Standards
Visible Emissions (VE)	20% Opacity - Charging	Part 6.1
Coke Battery Emissions	4.0% leaking coke oven doors for each short by-product coke oven battery 0.4 % leaking topside port lids 2.5 % leaking offtake systems	Section 6.9.3 40 <u>CFR</u> 63
Particulate Emissions	12 seconds of visible emissions per charge 15% leaking coke oven doors 5 % leaking topside port lids 10 % leaking offtake systems	Part 6.9
Visible Emissions (VE) Hazardous Air Pollutants (HAP)	No visible emissions from emergency bypass/bleeder stack flares, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours	40 <u>CFR</u> 63
Hazardous Air Pollutants (HAP)	Installation and operation of a emergency bypass/bleeder stack flare venting to atmosphere with a minimum of 98% destruction control	40 <u>CFR</u> 63
Volatile Organic Compounds (VOC)	95 % removal of VOC from coke oven gas bleeder (venting surplus COG) control system prior to discharge to the atmosphere	Part 8.27
Hazardous Air Pollutants HAP)	Charging, soaking, oven doors, lids, offtake systems, collecting mains, emergency bleeder flares	40 CFR 63 LAER Extention Track, Subpart CCCC

Pollution Control Device:

Flares

Continuous Emission Monitors:

None

EPA Reference Test Methods:

Method 9, Method 22, Method 303, Appendix A (40 CFR 60)

Reporting Requirements:

See Section 5, herein

Applicable Regulations:

Section 1.5.15, Section 2.1.3, Part 6.1, Section 6.9.3, Section 6.9.5, Section 6.9.6, Part 6.9, Part 8.27, Section 18.5.3, Part 18.5, 40 CFR 60,

40 CFR 63

	Permit Conditions for Emissions Unit No. 002 Section 1 – Applicability	Regulation
1	Applicability	
	Visible Eminion B	6.1
	Visible Emissions Restriction	18.5
	The Emissions Unit No. 002 permitted herein is subject to and shall comply with the requirements under Section 6.1.1 "Visible Emission B.	
		40 <u>CFR</u> 60
	of the Rules and Regulations. The permittee shall not cause or allow the discharge into the	
	except, during one 6-minute period in any 60 minute period, the permittee may discharge into the atmosphere any air contaminant of	e I
	designated as 40% opacity. Compliance with the opacity standard in this condition shall be determined by conducting observations in accordance with the opacity standard in this condition shall be	
	determined by conducting observations in an analysis standard in this condition shall be	
2	Appendix A of 40 CFR 60, July 1, 2008, as the same may be amended or revised.	
	o doptic 13	40 CFR 63,
	The Emissions Unit No. 002 herein is subject to the requirements as listed in Subpart L	63.300
	Section 2 – Emission, Equipment, Production Requirements, Limitations and Work Practice Standards	
}		
	Control of Particulate Matter	100
	Emissions Unit 002 permitted herein is subject to and shall comply with the requirements under Part 6.9, "Control of Particulate Emissions". Color O	6.9
	Coke Oven Gas Bleeder (Venting Surplus COG)	
	Each coke oven gas bleeder shall be aguinged with	8.27
		1
		2
- 1	Planton Concentration and by vicinal inequations questions	
	requested by the Health Officer.	
	Percent Leaking Door Restriction	
100	The number of doors leaking as determined pursuant to Marty 1202	6.9.6
10.00	The state of the catellate and an except a figure and a second state of the second sta	40 CFR 60
	addition, at any given time, the number of doors leaking shall not exceed 15 % of the total	40 CFR 63
	doors ovens in operation.	
1	Percent Leaking Lids Restriction	
1 -	The number of topside lids leaking as determined pursuant to Method 303 (standards for	6.9.5
1	compliance date extension) shall not exceed 0.46%	40 CFR 60
	compliance date extension) shall not exceed 0.4% on a 30-day rolling average basis. In	40 CFR 63
1	oddition, at any given time, the number of topside lids leaking shall not exceed 5% of the otal lids on ovens in operation.	
	Percent Leaking Offices Server Days in	
1	Percent Leaking Offiake System Restriction	6.9.5
1 6	the mumber of offices system reading as determined assessed as a second	40 CFR 60
11.5	or compliance date extension shall not exceed 2.5% on a 20 day and	40 CFR 63
	at any given time, the humber of office evelenc leaking chall and an and to	
	of the total office systems on ovens in operation	
(Tharging Visible Emissions Time Restriction	40 CFR 63
1	here shall be no more than 12 seconds of visible emissions per abuse and the	10 <u>C1 I</u> (0.)
	ursuant to Method 303 on a 30-day rolling average basis.	

9	Charging Visible Emissions Opacity Restriction	
	holes or the larry car of any battery with an opacity which is greater than 20% except for batteries with less than 70 ovens nor more than 4 minutes of any consecutive 60 minutes on batteries with 70 ovens or more. Visible emissions observations shall be conducted pursuant to Method 22 of 40 CFR 60. The procedures of Subpart L, including data visible emissions opacity observations opacity observations.	6.9.3
	assurance with Section 6.9.3 of the Bules and B	
10	Emergency Bypass/Bleeder Flares Emissions Limitation There shall be no emissions from any emergency bypass/bleeder flares, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours. Compliance with this requirement shall be determined by using Method 22 in Appendix A of 40 CFR 60 with an Subpart L – Standards for Collecting Mains	40 <u>CFR</u> 60 40 <u>CFR</u> 63
12	A. The owner or operator of a by-product coke oven battery shall inspect the collecting main for leaks at least once daily according to the procedures in Method 303. B. The owner or operator shall document any leak observed, and implement a collecting main repair within the time period allowed by the subpart.	40 <u>CFR</u> 63, 63,308
3	1 he work plan required to be submitted, implemented and adhered to in accordance with 63.300 of Subpart L of 40 <u>CFR</u> 63 shall be implemented and adhered to on a continuous for coke oven doors, topside port lids, offtake systems, and charging operations.	40 <u>CFR</u> 63, 63.306, 63.307 and 63.309(h)(2)
1	implement the provisions of the work practice plan pertaining to a particular emission point following the second independent exceedance of the visible emissions limitation for the emission point in any consecutive 6-month period.	40 <u>CFR</u> 63, 63.306
- c	CFR 63, a written startup, shutdown, and malfunction plan that describes procedures for operating the battery, including associated air pollution control equipment, during a period control practices for minimizing emissions, and procedures for correcting malfunctions process and air pollution control equipment.	40 <u>CFR</u> 63, Paragraph 63.310(i)
Si	If the owner or operator demonstrates, to the satisfaction of the Administrator, that a tartup, shutdown or malfunction has occurred, then an observation occurring during such tartup, shutdown or malfunction shall not:	
B	a violation of felevant requirements of it.	

15		60 AAS, 10004 50
	for a particular day, notification of a startup shutdown	40 <u>CFR</u> 63 63.310
	the owner or operator: A. If practical to the certified observed is	У
l		
		1
		1
16	emissions unit, describing in detail the startup, shutdown or malfunction Oven Maintenance	
	 All ovens shall be maintained in good condition to promote complete coking of coal. 	6.9.7
	B. All coke oven cracks are to be sealed as soon as practicable after they are detected.	
		1
	C. As directed by the Health Officer, reasonable records of the maintenance of oven	.
	doors, oven burners, and oven interiors are to be made and retained for a reasonable time.	
17	Coke Oven Standards	
	For the emission unit permitted berein the	6.9
	For the emission unit permitted herein, the permittee shall comply with the coke oven requirements of Sections 6.9.2, Paragraph 6.9.5(a), Section 6.9.6, and Section 6.9.7 of the Rules and Regulations.	00.0.50
	Rules and Regulations.	1
	Section 3 Compliance and Performance Test Made	
8		
	Except as otherwise provided a daily port	40 CFR 63,
	days per week for each new and existing coke oven battery, the results of which shall be used in accordance with procedures specified in this state.	63.309
	used in accordance with procedures specified in this subpart to determine compliance with each of the applicable visible emission limitations for each	
	each of the applicable visible emission limitations for coke oven doors, topside port lids, offtake systems, and charging operations in this subpart to determine compliance with	
9	offtake systems, and charging operations in this subpart. Test Methods and Procedures	
	The permittee shall determine counting to	2.1.3
	The permittee shall determine compliance with the visible emissions restrictions of this permit by the following EPA's reference methods under 40 CFR 60, Appendix A, July 1, 2008, as the same may be amended or revised:	40 CFR 60
	2008, as the same may be amended or raying d.	
-	Method 9: Visual Determination of the Openity of the	
- 1		
-	Method 303: Determination of Visible Emissions from By-Product Coke Oven Batteries Section 4 – Continuous Emission Manifesian No. 100 –	
-+		
-	Section 5 Recording and Reporting Positivements	
	Subpart L - Semiannual Compliance Certification The owner or operator of a cole over the cole of the cole over th	40 CFR 63
	The owner or operator of a coke oven battery shall comply with reporting requirement as contained in 63.311 of 40 CFR 63.	<u> </u>
	Subpart L - Recordkeeping	
	The owner or operator shall maintain files of all remains to 5	40 CFR 63,
		63.311
4	Separament Neutrical Applial Report Paguiroment	1.5.15
a		2.1.3
		18.5.3
Λ	The actual hours of operation;	
13	. The quantity of coke oven was humad in million at the	
C	The average monthly total sulfur content and heat content of coke oven gas; and The actual emissions (point and fugitive) of all regulated air pollutants.	
15	The state of the s	

Permit Number 4-07-0001-02

Emissions Unit Operating Permit Summary

Emissions Unit No.:

003

Company:

ABC Coke

Source Description:

Coke Oven Battery No. 5

Charging, Coking, Soaking, Oven Doors, Lids, Offtake Systems, Collecting Mains,

Bleeder Flares, and Emergency Bleeder Flares

Operating Schedule:

24 hours/day, 7 days/week, and 52 weeks/year

Type and quantity of fuel used: COG

Pollutants Emitted:

Pollutant	Regulatory Emission Limit	
Visible Emissions (VE)	20% Opacity	Applicable Standard
Visible Emissions (VE)	20% Opacity – Charging	Part 6.1
Coke Battery Emissions	4.0% leaking coke oven doors for each short by product	Section 6.9.3 40 CFR 63
	oven battery 0.4 % leaking topside port lids 2.5 % leaking offtake systems 12 seconds of visible emissions per charge	40 <u>CFR</u> 65
Particulate Emissions	15% leaking coke oven doors 5 % leaking topside port lids 10 % leaking offtake systems	Part 6.9
Visible Emissions (VE) Hazardous Air Pollutants (HAP)	No visible emissions from emergency bypass/bleeder stack flares, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours	40 <u>CFR</u> 63
Hazardous Air Pollutants (HAP)	Installation and operation of a emergency bypass/bleeder stack flare venting to atmosphere with a minimum of 98% destruction control	40 <u>CFR</u> 63
Volatile Organic Compounds (VOC)	95 % removal of VOC from coke oven gas bleeder (venting surplus COG) control system prior to discharge to the atmosphere	Part 8.27
Hazardous Air Pollutants HAP)	Charging, soaking, oven doors, lids, offtake systems, collecting mains, emergency bleeder flares	40 CFR 63 LAER Extention Track, Subpart CCCC

Pollution Control Device:

Flares

Continuous Emission Monitors:

None

EPA Reference Test Methods:

Method 9, Method 22, Method 303, Appendix A (40 CFR 60)

Reporting Requirements:

See Section 5, herein

Applicable Regulations:

Section 1.5.15, Section 2.1.3, Part 6.1, Section 6.9.3, Section 6.9.5, Section 6.9.6, Part 6.9, Part 8.27, Section 18.5.3, Part 18.5, 40 CFR 60,

40 CFR 63

	Permit Conditions for Emissions Unit No. 003 Section 1 – Applicability	Regulation
1	Applicability	Butteron
	Visible Emissions Restriction	6.1
	The Emissions Unit No. 202	18.5
	The Emissions Unit No. 003 permitted herein is subject to and shall comply with the requirements under Section 6.1.1. "Visible Emissions"	
		." 10 <u>CI K</u> 00
		e
2		
		40 CFR 63,
		63.300
	Section 2 – Emission, Equipment, Production Requirements, Limitations and Work Practice Standards	
	Control of Particulate Matter	
	Emissions Unit 003 permitted bases in the	6.9
	Emissions Unit 003 permitted herein is subject to and shall comply with the requirements under Part 6.9. "Control of Particulate Emissions On the Control of Particulate Emission On the Control of Particulate Emission On the Control of Particulate	
	under Part 6.9, "Control of Particulate Emissions – Coke Ovens," of the Rules and Regulations.	
	Coke Oven Gas Bleeder (Venting Surplus COG)	
	Each coke oven as bleeder (venting Surplus COG)	8.27
	Each coke oven gas bleeder shall be equipped with a closed vent system capable of capturing and transporting excess gas to a control of	1
	such control devices to ensure that they are operated and maintained in conformance with compliance with no detectable envisions.	-
1	han 500 ppm above background, and, by visual inspections, quarterly, and at other times	
1	equested by the Health Officer.	
1	Percent Leaking Door Restriction	
1	The number of doors leaking as determined purposed to M. d. 1999	6.9.6
		40 <u>CFR</u> 60
	at the fire time, the littliber of doors leaving chall not an an interest of the	40 <u>CFR</u> 63
d	oors ovens in operation.	
P	ercent Leaking Lids Restriction	
T	he number of topside lids leaking as determined our months. A discourse	6.9.5
114 8000	The same catcher and shall and exceed to do an a 20 1	40 <u>CFR</u> 60
8 1 678	and given time, the humber of topside lide looking shall not a start of	40 <u>CFR</u> 63
	The off of	
P	ercent Leaking Offtake System Restriction	
1	he number of offiake system leaking as determined pursuant to Math. 1202	6.9.5
1	. compliance that extension shall not exceed 2.5% on 2.30 day with	40 <u>CFR</u> 60
1	at any given time, the number of office everence leaking shall and any	40 <u>CFR</u> 63
***	70 of the total offices systems on ovens in operation	
0	narging Visible Emissions Time Restriction	10 0000
111	here shall be no more than 12 seconds of visible emissions per charge and the	40 <u>CFR</u> 63
The week	rsuant to Method 303 on a 30-day rolling average basis.	

9 Charg	ng Violbia E. C.	
At any	ng Visible Emissions Opacity Restriction time, there shall be no visible emissions during the charging cycle from charging or the larry car of any battery with an opacity which is a solution.	6.9.3
an ave	age period or periods not to	. 1
on batt	eries with seventy 70 average and a minutes of any consecutive 60 minutes	
conduc	ted pursuant to Method 22 of 10 CPP control of the	1
visible	lected by Method 303 are consistent with the State Implementation Plan (SIP) for emissions opacity observations and can be used to cufe.	.
Inspecti	on conducted using Method 202 the be used to enforce the SIP. Therefore, the	
assuran	ce with Section 6.9.3 of the Pulsar Land of this Department for compliance	
not to ex	ceed a total of 5 minutes 4.	40 <u>CFR</u> 60 40 <u>CFR</u> 63
requiren	ent shall be determined by using 2 consecutive nours. Compliance with this	40 <u>CFR</u> 63
observat	on period of 2 hours	1
Buopart.	- Standards for Collecting Mains	40 CVD 60
	The owner or operator of a by-product coke oven battery shall inspect the collecting main for leaks at least once daily according to the procedures in Method 303.	40 <u>CFR</u> 63, 63.308
	Method 303. Method 303.	
D,	The owner or operator shall document any leak observed, and implement a collecting main repair within the time period ellered, and implement a	1
12 Subpart I	- Work Practice St	
I THE WORK	Dian required to be sub	40 CFR 63,
designed i	half be implemented and adhered to on a continuous basis. The plan shall be of achieve compliance with visible emission limited.	63.306, 63.307
l topside po	rt lids, offtake systems, and de difficulting for coke oven doors	and 63.309(h)(2)
Subpart L.	- Implementation - C.W Bing operations.	
		40 <u>CFR</u> 63,
point follo	wing the second independ	63.306
Ine emission	n point in any consecutive 6	
		40 <u>CFR</u> 63,
<u>CFR</u> 63, a	or operator of a coke oven battery shall develop, according to 63.310(c) of 40 written startup, shutdown, and malfunction plan that describes procedures for battery, including associated air pollution control.	Paragraph
operating th	e battery including according to the battery including to the battery including the battery including the battery included to the bat	63.310(i)
control prac	shutdown, or malfunction in a manner consistent with good air pollution	
process and	tices for minimizing emissions, and procedures for correcting malfunctions air pollution control equipment.	
If the owner	or operator demonstrates, to the satisfaction of the Administrator, that a	
startup, shut	down or malfunction shall not:	
A. Cor B. Be	stitute a violation of relevant requirements of this subpart; and used for in any compliance determination under 63,309.	
Subpart L -	Notification of Start Lie Short	
In order for p	rovisions of 63.310(i) of 40 <u>CFR</u> 63 to apply with respect to an observation of day, notification of a startup shutdown are startup shutdown.	0 <u>CFR</u> 63,
the owner or	or day, notification of a startup, shutdown, or a malfunction shall be made by	3.310
A. If pr	actical to the certified observes it	
to the	e enforcement agency, in writing within 24 hours of the occurrence	
B. With	in 14 days from the notification as contained within condition 2 of this	
emis	ions unit, describing in detail the startup, shutdown or malfunction	

0.00	Oven Maintenance	(07
	A. All ovens shall be maintained in good condition to promote complete coking of	6.9.7
	coal.	
	B. All coke oven cracks are to be sealed as soon as practicable after they are	
	detected.	
	C. As directed by the Health Officer, reasonable records of the maintenance of oven	
	doors, oven burners, and oven interiors are to be made and retained for a	1
	reasonable time.	
17	Coke Oven Standards	6.9
	For the emission unit permitted herein, the permittee shall comply with the coke oven	0.9
	requirements of Sections 0.9.2, Paragraph 6.9.5(a) Section 6.0.6 and Section 6.0.7 and	
	Traines and regulations.	
	Section 3 Compliance and Performance Test Methods and Procedures	
18	Support L - Performance Tests and Procedures	40 OPP 60
	Except as otherwise provided, a daily performance test shall be conducted.	40 <u>CFR</u> 63,
	days per week for each new and existing coke over battery the regulte of the start	63.309
	and in decordance with procedilies specified in this subpart to datamine in the	65
	each of the applicable visible emission limitations for coke oven doors, topside port lids,	
	offtake systems, and charging operations in this subpart.	
19	Lest Methods and Procedures	
	The permittee shall determine compliance with the visible emissions and	2.1.3
	permit by the following EPA's reference methods under 40 <u>CFR</u> 60, Appendix A, July 1,	40 <u>CFR</u> 60
	2008, as the same may be amended or revised:	
	Method 9: Visual Determination of the Opacity of Emissions from Stationary Sources	
	Method 22: Visual Determination of Fugitive Emissions from Material Sources and	
	Smoke Emissions from Flares	
	Method 303: Determination of Visible Emissions from By-Product Coke Oven Batteries	
	Continuous Emission Monitoring - Not Applicable	
	Section 5 Recordkeeping and Reporting Requirements	
2()	Suppart L - Semiannual Compliance Certification	
	The owner or operator of a coke oven battery shall comply with reporting requirements as	40 <u>CFR</u> 63
	contained in 63.311 of the subpart.	
21	Subpart L - Recordkeeping	10.00
41	201	40 CFR 63,
۷.	1 " of operator shall highlight thes of all required information in a	
41	suitable for inspection at an onsite location for at least 1 year and must the engine form	63.311
<i>4</i> I	suitable for inspection at an onsite location for at least 1 year and must thereafter be accessible within 3 working days to the Administrator. Copies of the work and the suitable for inspection at an onsite location for at least 1 year and must thereafter be	
<i>4</i> 1	suitable for inspection at an onsite location for at least 1 year and must thereafter be accessible within 3 working days to the Administrator. Copies of the work practice plan developed under 63.306 of 40 CFR 63 and the startup shutdown and malf	
72.2	suitable for inspection at an onsite location for at least 1 year and must thereafter be accessible within 3 working days to the Administrator. Copies of the work practice plan developed under 63.306 of 40 CFR 63 and the startup, shutdown, and malfunction plan developed under 63.310 of 40 CFR 63 shall be kept onsite at all times	
	suitable for inspection at an onsite location for at least 1 year and must thereafter be accessible within 3 working days to the Administrator. Copies of the work practice plan developed under 63.306 of 40 CFR 63 and the startup, shutdown, and malfunction plan developed under 63.310 of 40 CFR 63 shall be kept onsite at all times. Department Required Annual Report Requirement	63.311
	suitable for inspection at an onsite location for at least 1 year and must thereafter be accessible within 3 working days to the Administrator. Copies of the work practice plan developed under 63.306 of 40 CFR 63 and the startup, shutdown, and malfunction plan developed under 63.310 of 40 CFR 63 shall be kept onsite at all times. Department Required Annual Report Requirement The permittee shall submit by February 10th of each calendar year to this Department are	1.5.15
72.2	suitable for inspection at an onsite location for at least 1 year and must thereafter be accessible within 3 working days to the Administrator. Copies of the work practice plan developed under 63.306 of 40 CFR 63 and the startup, shutdown, and malfunction plan developed under 63.310 of 40 CFR 63 shall be kept onsite at all times. Department Required Annual Report Requirement The permittee shall submit by February 10th of each calendar year to this Department an annual summary report for the previous calendar year in a format approved by the	1.5.15 2.1.3
	suitable for inspection at an onsite location for at least 1 year and must thereafter be accessible within 3 working days to the Administrator. Copies of the work practice plan developed under 63.306 of 40 CFR 63 and the startup, shutdown, and malfunction plan developed under 63.310 of 40 CFR 63 shall be kept onsite at all times. Department Required Annual Report Requirement The permittee shall submit by February 10th of each calendar year to this Department an annual summary report for the previous calendar year in a format approved by the	1.5.15
72.2	suitable for inspection at an onsite location for at least 1 year and must thereafter be accessible within 3 working days to the Administrator. Copies of the work practice plan developed under 63.306 of 40 CFR 63 and the startup, shutdown, and malfunction plan developed under 63.310 of 40 CFR 63 shall be kept onsite at all times. Department Required Annual Report Requirement The permittee shall submit by February 10th of each calendar year to this Department an annual summary report for the previous calendar year in a format approved by this Department of the following production information of the emissions unit permitted herein:	1.5.15 2.1.3
72.2	suitable for inspection at an onsite location for at least 1 year and must thereafter be accessible within 3 working days to the Administrator. Copies of the work practice plan developed under 63.306 of 40 CFR 63 and the startup, shutdown, and malfunction plan developed under 63.310 of 40 CFR 63 shall be kept onsite at all times. Department Required Annual Report Requirement The permittee shall submit by February 10th of each calendar year to this Department an annual summary report for the previous calendar year in a format approved by this Department of the following production information of the emissions unit permitted herein: A. The actual hours of operation;	1.5.15 2.1.3
72.2	suitable for inspection at an onsite location for at least 1 year and must thereafter be accessible within 3 working days to the Administrator. Copies of the work practice plan developed under 63.306 of 40 CFR 63 and the startup, shutdown, and malfunction plan developed under 63.310 of 40 CFR 63 shall be kept onsite at all times. Department Required Annual Report Requirement The permittee shall submit by February 10th of each calendar year to this Department an annual summary report for the previous calendar year in a format approved by this Department of the following production information of the emissions unit permitted herein: A. The actual hours of operation; B. The quantity of coke oven gas burned in million cubic feet:	1.5.15 2.1.3
W-2-X	suitable for inspection at an onsite location for at least 1 year and must thereafter be accessible within 3 working days to the Administrator. Copies of the work practice plan developed under 63.306 of 40 CFR 63 and the startup, shutdown, and malfunction plan developed under 63.310 of 40 CFR 63 shall be kept onsite at all times. Department Required Annual Report Requirement The permittee shall submit by February 10th of each calendar year to this Department an annual summary report for the previous calendar year in a format approved by this Department of the following production information of the emissions unit permitted herein: A. The actual hours of operation; B. The quantity of coke oven gas burned in million cubic feet:	1.5.15 2.1.3
22	suitable for inspection at an onsite location for at least 1 year and must thereafter be accessible within 3 working days to the Administrator. Copies of the work practice plan developed under 63.306 of 40 CFR 63 and the startup, shutdown, and malfunction plan developed under 63.310 of 40 CFR 63 shall be kept onsite at all times. Department Required Annual Report Requirement The permittee shall submit by February 10th of each calendar year to this Department an annual summary report for the previous calendar year in a format approved by this Department of the following production information of the emissions unit permitted herein: A. The actual hours of operation;	1.5.15 2.1.3

Emissions Unit No.:

004

Company:

ABC Coke

Source Description:

Coke Oven Battery No. 1

Charging, Coking, Soaking, Oven Doors, Lids, Offtake Systems, Collecting Mains,

Bleeder Flares, and Emergency Bleeder Flares

Operating Schedule:

24 hours/day, 7 days/week, and 52 weeks/year

Type and quantity of fuel used: COG

Pollutants Emitted:

Regulatory Emission Limit	
20% Opacity	Applicable Standard
	Part 6.1
Tall Battery - Subpart CCCCC (greaters the 5	Section 6.9.3
4.0% leaking coke oven doors for each short by-product coke oven battery 0.4 % leaking topside port lide	40 <u>CFR</u> 63
12 seconds of visible emissions per charge	
5 % leaking topside port lide	Part 6.9
No visible emissions from emergency bypass/bleeder stack flares, except for periods not to exceed a total of 5	40 <u>CFR</u> 63
Installation and operation of a emergency by	10.0
flares venting to atmosphere with a minimum of 98% destruction control	40 <u>CFR</u> 63
95 % removal of VOC from coke oven gas bleeder (venting surplus COG) control system prior to discharge to the atmosphere	Part 8.27
Charging, soaking, oven doors, lids, offtake systems, collecting mains, emergency bleeder flares	40 CFR 63 LAER Extension Track, Subpart CCCCC
	0.4 % leaking topside port lids 2.5 % leaking offtake systems 12 seconds of visible emissions per charge 15% leaking coke oven doors 5 % leaking topside port lids 10 % leaking offtake systems No visible emissions from emergency bypass/bleeder stack flares, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours Installation and operation of a emergency bypass/bleeder stack flares venting to atmosphere with a minimum of 98% destruction control 95 % removal of VOC from coke oven gas bleeder (venting surplus COG) control system prior to discharge to the atmosphere Charging, soaking, oven doors, lids, offtake systems, collecting mains, emergency bleeder flares

Pollution Control Device:

Flares

Continuous Emission Monitors:

None

EPA Reference Test Methods:

Method 9, Method 22, Method 303, Appendix A (40 CFR 60)

Reporting Requirements:

See Section 5, herein

Applicable Regulations:

Section 1.5.15, Section 2.1.3, Part 6.1, Section 6.9.3, Section 6.9.5, Section 6.9.6, Part 6.9, Part 8.27, Section 18.5.3, Part 18.5, 40 CFR 60,

40 CFR 63

	Permit Conditions for Emissions Unit No. 004 Section 1 – Applicability	Regulation
1	Applicability	Regulation
1	Visible Emissions Restriction	6.1
	The Emissions Unit No. 004	18.5
	The Emissions Unit No. 004 permitted herein is subject to and shall comply with the requirements under Section 6.1.1, "Visible Emissions Proteins"	10.5
	requirements under Section 6.1.1, "Visible Emissions Restrictions for Stationary Sources, of the Rules and Regulations. The permittee shall not cause on all and restrictions for Stationary Sources,	,, 40 <u>CFR</u> 60
	of the Rules and Regulations. The permittee shall not cause or allow the discharge into the atmosphere from the emissions unit permitted bergin any six and the discharge into the	.
	atmosphere from the emissions unit permittee shall not cause or allow the discharge into the opacity greater than that designated as 20% opacity as determined.	
	opacity greater than that designated as 20% opacity, as determined by a 6-minute average; except, during one 6-minute period in any 60 minute period the	
	except, during one 6-minute period in any 60 minute period, the permittee may discharge into the atmosphere any air contaminant of an equivalent openion.	1
	into the atmosphere any air contaminant of an equivalent opacity not greater than that	ĺ
	designated as 40% opacity. Compliance with the opacity standard in this condition shall be determined by conducting observations in accordance with Reference Medical Condition of the condition	
	determined by conducting observations in accordance with Reference Method 9 in Appendix A of 40 CFR 60, July 1, 2008, as the same people.	:
2	Appendix A of 40 CFR 60, July 1, 2008, as the same may be amended or revised.	1
	The Emissions Unit No. 2044	10.000
	The Emissions Unit No. 004 herein is subject to the requirements as listed in Subpart L. (National Emissions Standards for Hazardous Air Pollutants for China	40 <u>CFR</u> 63,
	(National Emissions Standards for Hazardous Air Pollutants for Coke Ovens) of Part 63 of Title 40 of the Code of Federal Regulations.	63.300
	Title 40 of the Code of Federal Regulations. Section 2 - Emission B.	
	Section 2 - Emission, Equipment, Production Requirements, Limitations and Work Practice Standards	-
3	Control of Particulate Matter	
	Emissions Unit 004	(0)
	Emissions Unit 004 permitted herein is subject to and shall comply with the requirements under Part 6.9, "Control of Particulate Emissions - Coke Overes" of the Part of the P	6.9
	under Part 6.9, "Control of Particulate Emissions - Coke Ovens," of the Rules and	
	Coke Oven Gas Placedo (V	
	Coke Oven Gas Bleeder (Venting Surplus COG)	0.22
	Each coke oven gas bleeder shall be equipped with a closed vent system capable of capturing and transporting excess gas to a control decision.	8.27
	closed vent system shall be presented to a conduct device. All coke oven gas from the	
	95% percent of the VOC from and and control device which removes at least	
	or operators of control devices used as a discharged to the atmosphere. Owner	
	such control devices to ensure that the	
	their design specifications. Closed	
1	compliance with no detectable animist of monitored to determine	
- 1	than 500 ppm above background, and be indicated by an instrument reading of less	
_	than 500 ppm above background, and, by visual inspections, quarterly, and at other times	
	Percent Leaking Door Restriction	
	The number of doors leaking as datum.	6.9.6
	compliance date extension) shall not exceed 4.0% on a 30-day rolling average basis. In	40 <u>CFR</u> 60
1	addition, at any given time, the number of doors lead in the series and a so-day rolling average basis. In	10 CFR 63
1	doors ovens in operation.	
	Percent Leaking Lide Restriction	
	The number of topside lide leaking as data	.9.5
1	compliance date extension) shall not exceed 0.4% on a 30-day rolling average basis. In	0 <u>CFR</u> 60
1:	addition, at any given time, the number of tension 100 in a 30-day rolling average basis. In	0 CFR 63
1	otal lids on ovens in operation	
11	Percent Leaking Offiake System Posteini	
1 1	ne number of offike system leating as to the	9.5
1	or compliance date extension) shall not exceed 2.5% on a 30-day rolling average basis.	CFR 60
1	a addition, at any given time, the number of 62.5% on a 30-day rolling average basis.	CFR 63
1 0	of the total offtake systems on ovens in operation.	1200

8	Charging Visible Emissions Time Restriction There shall be no more than 12 consults for the	40 CFR 63
	There shall be no more than 12 seconds of visible emissions per charge as determined pursuant to Method 303 on a 30-day rolling average basis.	
9	Charging Visible Emissions Opacity Restriction	6.9.3
	At any time, there shall be no visible emissions during the chart	0.9.3
	mores of the fally cal of ally patiety with an opacity which is greater the page	
	The state of the s	1
	the respondent to the responde	
	on butteries with 70 0 vells of inore. Visible emissions observations shall be	
	parsuant to Michiga 42 01 40 CPR by The procedures of Cubrant 1 11 11	
	concered by without 505, are consistent with the State Implementation Discovery of	1
	1 Total Cities of a City Observations and can be used to enforce the city of	1
	1 mspection conducted using Meinon 303 will be used by this Depositment 6.	
10	and Regulations	
10	Emergency Bypass/Bleeder Flares Emissions Limitation	40 CFR 60
	There shall be no emissions from any emergency bypass/bleeder flares, except for periods	40 CFR 63
	not to exceed a total of J lillilles during any 2 consecutive hours. Compliance in the	10 CIK 0.5
	requirement shall be determined by using Method 22 in Appendix A of 40 CED 60 with	
	observation period of 2 hours.	
11	Subpart L – Standards for Collecting Mains	40 OFD 42
	A. The owner or operator of a by-product coke oven battery shall inspect the	40 <u>CFR</u> 63, 63.308
	confecting main for leaks at least once daily according to the procedures in	03.306
	Method 303.	
	B. The owner or operator shall document any leak observed, and implement a	
12	Collecting main repair within the time period allowed by the subport	
12	Suppart L - Work Practice Standards	40 CFR 63,
	The work plan required to be submitted in accordance with 63.300 of Subpart L of 40	63.307, and
	SIA 03 shart be implemented and adhered to on a continuous basis. The plan shall be	63.309(h)(2)
	designed to achieve compliance with visible emission limitations for coke over doors	
3	topside port lids, offtake systems, and charging operations	
,,	Subpart L - Implementation of Work Practice Plans	40 CFR 63,
	The owner or operator of a coke oven battery subject to visible emissions limitations shall	Section 63.306
	implement the provisions of the work practice plan pertaining to a particular emission	
	point following the second independent exceedance of the visible emissions limitation for the emission point in any consecutive 6-month period.	
4	Subpart L - Start-Up, Shutdown, and Malfunctions (SSM)	
	Each owner or operator of a coke oven battery shall develop, according to 63.310(c) of 40	40 CFR 63,
	CFR 63, a written startup, shutdown, and malfunction plan that describes procedures for	63.310(i)
	operating the battery, including associated air pollution control equipment, during a period	
	of a startup, shutdown, or malfunction in a manner consistent with good air pollution	
	control practices for minimizing emissions, and procedures for correcting malfunctions	
	process and air pollution control equipment.	
	If the owner or operator demonstrates, to the satisfaction of the Administrator, that a	
	startup, shutdown or malfunction has occurred, then an observation occurring during such	
	startup, shutdown or malfunction shall not:	
35	A Counting it is a	
	A. Constitute a violation of relevant requirements of this subpart; and B. Be used for in any compliance determination under 63 309 of 40 CER 63	
	B. Be used for in any compliance determination under 63.309 of 40 CFR 63.	

	Subpart L – Notification of Start-Up, Shutdown, and Malfunction (SSM) In order for provisions of 63.310(i) of 40 CFR 63, to apply with respect to an observation of a particular day, notification of a startup, shutdown, or a malfunction shall be made the owner or operator:	40 <u>CFR</u> 63, 63.310
16	A. If practical to the certified observer, if present during the occurrence; or to the enforcement agency, in writing within 24 hours of the occurrence B. Within 14 days from the notification as contained within condition 2 of this emissions unit, describing in detail the startup, shutdown or malfunction Oven Maintenance	
	 A. All ovens shall be maintained in good condition to promote complete coking of coal. B. All coke oven cracks are to be sealed as soon as practicable after they are detected. C. As directed by the Health Officer, reasonable records of the maintenance of over doors, oven burners, and oven interiors are to be made and retained for a reasonable time. 	
17	Coke Oven Standards For the emission unit permitted herein, the permittee shall comply with the coke oven requirements of Sections 6.9.2, Paragraph 6.9.5(a), Section 6.9.6, and Section 6.9.7 of the Section 3 Compliance and Regulations.	6.9
9	Section 3 Compliance and Performance Test Methods and Procedures Subpart L - Performance Tests and Procedures Except as otherwise provided, a daily performance test shall be conducted each day, 7 days per week for each new and existing coke oven battery, the results of which shall be used in accordance with procedures specified in this subpart to determine compliance with each of the applicable visible emission limitations for coke oven doors, topside port lids, Test Methods and Procedures	40 <u>CFR</u> 63, 63.309
	Propermittee shall determine compliance with the visible emissions restrictions of this permit by the following EPA's reference methods under 40 CFR 60, Appendix A, July 1, 2008, as the same may be amended or revised: Method 9: Visual Determination of the Opacity of Emissions from Stationary Sources Method 22: Visual Determination of Fugitive Emissions from Material Sources and Smoke Emissions from Flares Method 303: Determination of Visible Emissions from By-Product Coke Oven Batteries Section 4 – Continuous Emission Monitories	2.1.3 40 <u>CFR</u> 60
	The record of the country of the record of t	
	The owner or operator of a coke oven battery shall comply with the reporting requirements as contained in 63.311 of 40 CFR 63.	40 <u>CFR</u> 63
5 8 6	Subpart L – Recordkeeping The owner or operator shall maintain files of all required information in a permanent form suitable for inspection at an onsite location for at least 1 year and must thereafter be accessible within 3 working days to the Administrator. Copies of the work practice plan leveloped under 63.306 of 40 CFR 63, and the startup, shutdown, and malfunction plan leveloped under 63.310 of 40 CFR 63, shall be kept onsite at all times.	40 <u>CFR</u> 63, 63.311

,	Department Required Annual Report Requirement The permittee shall submit by February 10th of each calendar year to this Department an	1.5.15
	annual summary report for the previous calendar year in a format approved by this	2.1.3
	Department of the following production information of the emissions unit permitted herein:	18.5.3
	A. The actual hours of operation;	
	B. The quantity of coke oven gas burned in million cubic fact.	
	C. The average monthly total sulfur content and heat content of color	
	D. The actual emissions (point and fugitive) of all regulated air pollutants as defined in Chapter 18 of the Rules and Regulations.	

Emissions Unit Number:

005

Emissions Unit Description:

Coke By-Products

Operating Permit Number:

4-07-0001-02

Facility Name:

ABC Coke - Coke/Utilities

Permitted Operating Schedule: 8,760 hours per year

Type and Quantity of Fuel Used: N/A

Pollutants Emitted:

Pollutants	Pagulata P	
Visible Emissions (VE)	Regulatory Emission Limits	Applicable Standards
Fugitive Emissions	20 % Opacity	Part 6.1
Volatile Organic Compounds (VOC)-	Restrict Beyond Property Lines	Part 6.2
Benzene (HAP)	No detectable emissions from final-cooler cooling towers, and final coolers	40 CFR 61, Subpart L
Benzene (HAP)	I ogg the - told as	
Benzene (VHAP)	Less than 10 Mg/Yr	40 CFR 61, Subpart FF
	Leak Detection & Repair	40 CFR 61, Subpart V

Pollution Control Equipment:

Enclosed Positive Pressure Gas Blanketing System

Continuous Monitor:

None

Periodic Monitoring:

Sections 61.242, 61.244, 61.135, Part 8.26 Sections 61.242-3 and 61.242-9 are excluded

Continuous Compliance Determiner:

None

EPA Reference Test Methods:

Methods 2, 2A, 2C, 2D 21, 22, 40 CFR 60, Appendix A

Reporting Requirements:

See Section 5

Applicable Regulations:

Part 1.3, Section 1.5.15, Section 2.1.3, Chapter 4, Part 6.1, Section 8.26.3, Section 8.26.4, Section 8.26.5, Section 8.26.6, Section 8.26.7, Section 8.26.8, Section 8.26.9, Section 8.26.10, Section 8.26.11, Section 8.26.12, Section 8.27.2, Section 8.27.3, Section 8.27.4, Section 8.27.5, Chapter 16, Chapter 18, Section 18.2.4, Section 18.2.8, 40

CFR 60, 40 CFR 61

No.		Regulation
	Section 1 – Applicability	
1	The Emissions Unit No. 005, Coke By-Products Recovery Plant, is subject to the visible emissions restrictions of Part 6.1, the fugitive emissions restrictions of Part 6.2, the equipment leak detection and repair requirements of Part 8.26, the permitting requirements of Chapter 18 of the Rules and Regulations, and the control and equipment leak detection and repair requirements of Subpart L and V of 40 CFR 61.	6.1 6.2 8.26 Chapter 18 40 CFR 61
2	Subpart FF The Emissions Unit 005 permitted herein is subject to the requirements as listed in Subpart FF (National Emission Standard for Benzene Waste Operations) of Part 61 of Title 40 of the Code of Federal Regulations.	2.1.3 Chapter 18 40 <u>CFR</u> 61
3	Section 2 - Emissions, Equipment or Production Requirements and Limitations	
,	Visible Emissions Restriction The Emissions Unit No. 005 permitted herein is subject to and shall comply with the requirements under Section 6.1.1, "Visible Emissions Restrictions for Stationary Sources," of the Rules and Regulations. The permittee shall not cause or allow the discharge into the atmosphere from the emissions unit permitted herein any air contaminant of an equivalent opacity greater than that designated as 20% opacity, as determined by a 6-minute average; except, during one 6 minute period in any 60-minute period, the permittee may discharge into the atmosphere any air contaminant of an equivalent opacity not greater than that designated as 40% opacity. Compliance with the opacity standard in this condition shall be determined by conducting observations in accordance with Reference Method 9 in Appendix A of 40 CFR 60, July 1, 2008, as the same may be amended or revised. Fugitive Emissions Restriction	6.1 18.5 40 <u>CFR</u> 60
	The Emissions Unit No. 005 permitted herein is subject to and shall comply with the requirements under Part 6.2 of the Rules and Regulations. The permittee shall not cause, suffer, allow, or permit any materials to be handled, transported, or stored; or a building, its appurtenances, or a road to be used, constructed, altered, repaired or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions shall include, but not be limited to, the following: A. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land; B. Application of asphalt, oil, water, or suitable chemicals on dirt roads, material stock piles, and other surfaces which create airborne dust problems; C. Installation and use of hoods, fans, and fabric filters (or other suitable control devices) to enclose and vent the handling of dust materials. Adequate containment methods shall be employed during sandblasting or other similar operations. The permittee shall not cause or permit the discharge of visible emissions beyond the lot	6.2 18.5
	When dust, fumes, gases, mist, odorous matter, vapors, or any combination thereof escape from a building or equipment in such a manner and amount as to cause a nuisance or to violate any rule or regulation, the Health Officer may order that the building or equipment in which processing, handling and storage are done be tightly closed and ventilated in such a way that all air and gases and air or gas-borne material leaving the building or equipment are treated by removal or destruction of air contaminants before discharge to the open air.	

5	Standards for Process Vessels, Storage Tanks, Tar-Intercepting Sumps, Process Vessels, Tar Storage Tanks, Light Oil Sumps, Napthalene Processing, Final Coolers, Final-Cooler	40 <u>CFR</u> 61
	Cooling Towers, and Equipment Leaks The equipment types indicated associated with Emissions Unit No. 005 permitted herein	
	are subject to the applicable standards as listed in Sections 61 132 through 61 135 of	
	Subpart L of 40 CFR 61 and Sections 61.242-1 through 61.243-2 of Subpart V of 40 CFR 61.	1
6	Benzene Waste Restriction	
	Pursuant to the requirements of Subpart FF, the total annual benzene quantity from facility waste shall be less than 10 Megagrams per year (Mg/yr).	
7	Limitation for Napthalene Processing, Final Coolers, and Final-Cooler Cooling Tower	40 CFR 60
	No ("zero") emissions shall be allowed from final coolers and final cooler-cooling towers	40 <u>CFR</u> 61
	Zero emissions shall be determined by monitoring all connections, seals, lines at associated with the indicated equipment utilizing Method 21 (40 CFR 60, Appendix 40) and	0.011
	procedures specified in 61.245(c) of 40 CFR 61, and the indicated equipment (including	
	sealing materials) shall be visually inspected for evidence of visible defects such as gaps or	
	lears. This monitoring shall be conducted on a monthly basis.	
8	Standards for All Equipment in VOC Service at Coke By-Product Recovery Plants	8.26
	The equipment types indicated associated with Emissions Unit No. 005 permitted herein	8.27
	are subject to the standards as listed in Sections 8.26.3, 8.26.4, 8.26.5, 8.26.6, 8.26.7.	
	8.26.8, 8.26.9,8.27.2, 8.27.3, 8.27.4, and 8.27.5 of the Rules and Regulations.	*
)	Section 3 – Compliance and Performance Test Methods and Procedures	
,	Leak Detection and Repair Program (LDAR) Program Monitoring Requirements	40 <u>CFR</u> 61
	A LDAR program shall be implemented to include the equipment types associated with	8.26
	Emissions Unit No. 005 permitted per the applicable standards as listed in 61.132 through	8.27
	61.135 of Subpart L of 40 CFR 61; 61.242-1 through 61.243-10 (excluding 61.242-3 &	
	61.242-9) of Subpart V of 40 <u>CFR</u> 61; and Sections 8.26.3, 8.26.4, 8.26.5, 8.26.6, 8.26.7, 8.26.8, 8.26.9, 8.27.2, 8.27.3, 8.27.4, and 8.27.5 of the Rules and Regulations.	
0	The Department may request that the permittee demonstrate compliance with the emission	18.2.5
	rate restrictions of this Major Source Operating Permit and the Regulations by using the	18.7
	following EPA-approved methods and procedures:	40 <u>CFR</u> 60
	A. Reference Method 2, 40 CFR 60, Appendix A	
	Determination of Stack Gas Velocity and Volumetric Flow Rate	
	B. Reference Method 2A, 40 CFR 60, Appendix A	
	Direct measurement of Gas Volume through Pipes and Small Ducts	
	C. Reference Method 2B, 40 CFR 60, Appendix A	
	Determination of Gas Velocity and Volumetric Flow Rate in Small Stacks	
	D. Reference Method 2C: 40 <u>CFR</u> 60, Appendix A	
	Determination of Gas Velocity and Volumetric Flow Rate in Small Stacks or Ducts	
	(Standard Pitot Tube)	
	E. Reference Method 2D: 40 <u>CFR</u> 60, Appendix A	
	Measurement of Gas Volume Flow Rates in Small Pipes and Ducts F. Reference Method 21: 40 CFR 60, Appendix A	
	Determination of Volatile Organic Compound Leaks	
11	G. Reference Method 22: 40 CFR 60, Appendix A	
	Visual Determination of Fugitive Emissions from Material Sources and Smoke	
	Emissions from Flares	

11	Subpart FF Monitoring The permittee shall determine the total annual benzene quantity from facility waste as specified by in 61.355 of 40 CFR 61. The permittee shall repeat the determination of the total annual benzene quantity at least once per year and whenever there is a change in the process that could cause the total annual benzene quantity from waste to 10 Mg/yr or more. If the total annual benzene quantity is less than 1 Mg/yr, then the owner or operator shall comply with the recording and recordkeeping requirements of 61.356 and 61.357 of 40 CFR 61. Section 4 – Continuous Emission Monitoring - No applicable requirements.	40 <u>CFR</u> 61 61.355, 61.356, and 61.357
12	Section 5 – Recordkeeping and Reporting Requirements For the unit permitted herein, where applicable, records shall be kept and reports shall be submitted in accordance with 61.138 of Subpart L of 40 CFR 61, 61.246 and 61.247 of Subpart V of 40 CFR 61, 61.356 and 61.357 of Subpart FF, and Sections 8.26.10 and 8.26.11 of the Rules and Regulations.	8.26 40 <u>CFR</u> 61
13	Annual Report Requirement The permittee shall submit to the Department by February 10 th of each calendar year an annual summary report for the previous calendar year in a format approved by the Department the following production and emissions information: A. For each emissions unit type associated with the by-products recovery facility (light-oil storage tank, tar decanter, direct-water cooling tower, tar intercepting sump, tar dewatering sump, tar storage tank, light oil condenser vent, light oil sump, BTX storage, flushing liquor circulation tank, excess ammonia liquor tank, wash-oil circulation tank), list the number of emissions unit types; B. The actual emissions of all regulated air pollutants as defined in Chapter 18 of the Rules and Regulations, including all individual HAP emissions, and including fugitive emissions shall be included in the report; C. For storage tanks, the chemical or trade name of the stored VOC in the tank; D. The average storage temperature of the stored VOC in degrees Fahreinheit; E. The average true vapor pressure (in psia) of the stored VOC at storage temperature; F. The quantity in gallons of any VOC/HAP materials lost (evaporated to the atmosphere) due to a spillage, leak, or any other mishap; G. The annual throughput in gallons per year; and H. In regards to Subpart FF, at the point of waste generation, the annual waste quantity, range of benzene concentrations (monthly values), the annual average flow-weighted benzene concentrations, and the annual benzene quantity.	2.1.3 18.5 18.7
14	NESHAP Notification, Reporting, and Recordkeeping Requirements Where applicable, the permittee shall comply with the notification, reporting, and recordkeeping requirements of Subparts A, L, V, and FF of 40 CFR 61.	40 <u>CFR</u> 61

Emissions Unit No.:

007

Company:

ABC Coke

Source Description:

Underfire Stack Coke Oven Batteries Nos. 5 and 6

Operating Schedule:

24 hours/day, 7 days/week, and 52 weeks/year

Pollutants Emitted:

Pollutant	Regulatory Emission Limit	1
Visible Emissions (VE)	20% Opacity/3-Minute Average per 60-Minute Period	Applicable Standard
Visible Emissions (VE)	20% Opacity design letter and Period	Section 6.9.8
	20% Opacity during batterywide extended coking cycle; 15% Opacity during normal coking cycle (short battery less than 5 meters in height)	40 <u>CFR</u> 63 (Subpart CCCCC)
Particulate Matter (PM)	0.12 lbs/MMBTU of Heat Input (Max. Capacity)	D- + C2
Particulate Matter (PM10)	N/A	Part 6.3
Sulfur Dioxide (SO2)	1.8 lbs/MMBTU of Heat Input	N/A
Nitrogen Oxides (NOx)	N/A	Section 7.1.1
Carbon Monoxide (CO)	N/A	N/A
Volatile Organic		N/A
Compounds (VOC)	N/A	N/A

Pollution Control Device:

None

Continuous Emission Monitors:

COMS

Continuous Compliance Determiner:

Daily Recordkeeping of Fuels Coke Oven Gas Combusted Maximum Heat Input Restricted to 250 MMBTU/hour

Monthly Testing of COG Sulfur Content Restricted to Coke Oven Gas Combustion

Operation of COMs-24 hour (daily average) of data

Work Practice Standards

Operation and Maintenance Requirements Start-up, Shutdown, and Maintenance Plan

Title V Monitoring:

Twice Weekly Visible Emissions Observation of Combustion Stack;

Installation of COMS

Monthly Sampling & Testing of COG Sulfur Content Monthly Sampling & Testing of COG Heat Content

EPA Reference Test Methods:

1, 2, 3, 4, 5, 6, 7 and 9 of 40 CFR 60, Appendix A

Reporting Requirements:

See Section 6

Applicable Regulations:

Section 1.5.15, Section 2.1.3, Part 6.1, Part 6.3, Section 6.9.8, Part 7.1,

Section 7.1.1, Part 18.5, Section 18.5.3, 40 CFR 60, 40 CFR 63

	Permit Conditions for Emissions Unit No. 007 Section 1 – Applicability	Regulation
1	Applicability	
	The Emissions Unit 007, Underfire Stack of Batteries Nos. 5 & 6, permitted herein shall include any equipment, device, or contrivance and all appurtenances thereto, including ducts, fuel-feeding equipment, combustion controls, stacks and chimneys, and the combustion fuels used. The emissions unit is subject to the particulate emission rate allowed under Part 6.3, entitled "Fuel Burning Equipment," of the Regulations. The emissions unit is subject to the visible emissions restrictions under Section 6.9.8, entitled "Combustion Stacks," of the Regulations. The emissions unit is subject to Part 7.1, entitled "Fuel Combustion," of the Regulations. The emissions unit is subject to the major source emissions fees of Chapter 16 of the Regulations. The emissions unit is subject to Title V permitting requirements of Chapter 18 of the Regulations	6.3 6.9.8 7.1 Chapter 16 Chapter 18
2	The permittee shall be in compliance with the emissions limitations, work practice standards, and operation and maintenance requirements in this subpart at all times, except during periods of startup, shutdown, and malfunction as defined in Section 63.2.	40 CFR 63 Chapter 18
3	The permittee shall develop and implement a written startup, shutdown, and malfunction plan according to the provisions of 63.6(e)(3) of 40 CFR 63. For COMS, a monitoring malfunction is any sudden, infrequent, not reasonably preventive failure of the monitor to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.	40 <u>CIFR</u> 63 63.7332 Chapter 18
	Subpart CCCCC The Emissions Unit No. 007 herein is subject to the requirements as listed in Subpart CCCCC (National Emissions Standards for Hazardous Air Pollutants for Coke Ovens) of Part 63 of Title 40 of the Code of Federal Regulations	40 CFR 63 Chapter 18
	Section 2 Emission, Equipment or Production Requirements and Limitations Visible Emissions Restriction The Emissions Unit No. 007 shall comply with the visible emissions requirements under Section 6.9.8 of the Rules and Regulations. There shall be no visible emissions, other than water mist or vapor, with an opacity greater than 20% from the combustion stack except for a period or periods aggregating not more than 3 minutes in any consecutive 60 minutes. Compliance with the opacity standard in this condition shall be determined by conducting observations in accordance with Reference Method 9 in Appendix A of 40 CIR 60. The permittee shall perform a visual observation of the emission unit's combustion stack and make a record of the visual observation at least twice per week for a period of 15 minutes or more. If any visible emissions (greater than 15% opacity) are observed, the permittee shall expeditiously correct the problem causing the emission unit to emit visible emissions and make a record of the event and the corrective actions. If the visible emissions cannot be corrected, the permittee shall have a certified Reference Method 9 observer determine the combustion stack's opacity within 24 hours.	2.1.3 6.9.8 18.5.3(a)(2)
1 2	Subpart CCCC - Emissions Limitation The permittee shall not discharge to the atmosphere any emissions from any battery stack	40 <u>CFR</u> 63, 63.7296 Chapter 18
a	A. Daily average of 15% opacity for a battery on a normal coking cycle; or	complet to

7	Particulate Emissions Restriction	
	The Emissions Unit permitted herein is subject to and shall comply with the particulate emission rate restriction that is allowed under Part 6.3, entitled "Fuel Burning Equipment, of the Regulations. The permittee shall not course and the state of the Regulations.	2.1.3 6.3 18.5
	matter from the fuel-burning equipment permitted by	18.5.3(a)(2)
	5 of Appendix A of 40 CFR 60, July 1, 2008, as the same may be amended or revised. To	
	with this emission limit by certifying to the Department shall demonstrate compliance	
	The state of the control of the cont	
3		
í	Sulfur Oxides Emissions Restriction The Emissions Unit permitted bergin in a bi	2.1.3
	The Emissions Unit permitted herein is subject to and shall comply with the sulfur oxide emission rate restriction that is allowed under Section 7.1.1 of the Rules and Regulations.	7.1.1
		18.5
		18.5.3(a)(2)
	40 CFR 60, July 1, 2008, as the same may be smarted. Method 6C of Appendix A of	
	determine the heat content of each fuel sample. The emissions unit is restricted to combusting coke oven gas.	1
	Combustion Fuel Restriction	
	The Emissions Unit permitted herein is restricted to	2.1.3
		18.5
)	(within ± 1% accuracy) of COG combusted each calendar day. Heat Input Restriction	
1	The Emissions Unit permitted bose in the	2.1.3
	The Emissions Unit permitted herein shall not exceed 250,000,000 BTUs per hour of heat input. This restriction shall be demonstrated by recording and maintaining a record of the amounts (within ± 1% accuracy/ ± 123 × 103 CEV).	18.5
	CF/day on a 24-hour coking cycle) of fuel combusted and time operated each calendar day.	
0-0-		
	Section 3 Compliance and Performance Test Methods and Procedures Test Methods and Procedures	
	The permittee shall determine compliance with the particular	2.1.3
	1	40 <u>CFR</u> 60
	reference methods under 40 <u>CFR</u> 60, Appendix A, July 1, 2008, as the same may be amended or revised:	
	Method 1: Sample and Velocity Traverses	
	Method 2: Determination of Stack Gas Velocity and Volumetric Floor Bare	
	J. Gas Allarysis for Carpon Monoxide Oxygen Evygen Air and Day 24 124	
	Method 4: Determination of Moisture Content in Stack Gases Method 5: Determination of Particulate Emissions	
	Method 6C: Determination of Sulfur Dioxide Emissions	
	Method 7: Determination of Nitrogen Oxide Emissions	
	Method 9: Visual Determination of the Opacity of Emissions	
	Tulwiler Method: Sulfur Content (H2S) in Gas Mixtures	
	Calorimeter: Determination of Heat Content of Fuels in BTU per Cubic Foot	

12	Subpart CCCCC—Performance Testing The permittee shall conduct an initial and subsequent (continuous) performance test in accordance with the following:	40 <u>CFR</u> 63, 63.7324 63.7326(d) Chapter 18
	To determine compliance with the daily average opacity limit for stacks of 15% for a by- product coke oven battery on a normal coking cycle or 20% for a by-product coke oven battery on battery-wide extended coking, follow the test methods and procedures in items 1 through 3 below: 1. Using the continuous opacity monitoring system (COMS) required in 63.7330(e) of 40 CFR 63, measure and record the opacity of emissions	Chapter 16
	from each battery stack for a 24-hour period. 2. Reduce the monitoring data to hourly averages as specified in 63.8(g)(2) of 40 <u>CFR</u> 63; and 3. Compute and record the 24-hour (daily) average of the COMS data.	
	For each by-product coke oven battery stack subject to an opacity limit in 63.7296(a) of 40 CFR 63, the permttee shall submit a notification of compliance status containing the COMS performance test.	
13	Section 4—Operation and Maintenance Requirements	
	Good Engineering Paractices & Minimize Emissions to the Level of Subpart CCCCC A. A required by 63.6(e)(1)(i) of 40 CFR 63, the permittee shall operate and maintain the affected source (batteries), including the air pollution control and monitoring equipment, in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels required by this subpart. 1. The permittee must prepare and operate at all times according to a written operating and maintenance plan for the general operation and maintenance of the existing by-product coke oven batteries. Each plan must address, at a minimum, the elements listed as follows: a. Frequency and method of recording underfire gas parameters; b. Frequency and method of recording battery operating temperature, including measurement of individual flue and cross-wall temperatures; c. Procedures to prevent overcharging and undercharging of ovens, including measurement of coal moisture, coal bulk density, and procedures for determining volume of coal charged; Errowoney and method of finition of the coal charged; Errowoney and method of recording battery operating of coal charged;	40 <u>CFR</u> 63, 63.7300 63.7331 Chapter 18
	d. Frequency and procedures for inspecting flues, burners, and nozzles; and	
	c. The operating and maintenance plan must include requirements to repair any defects or deficiencies noted in inspections as described in Permit Condition 15 of this emissions unit. Repairs are to be made before the next scheduled inspection.	

14	Subpart CCCC—COMS—Operation, and Maintenance Requirements For Monitors For each by-product coke oven battery, the permittee shall install, operate, and maintain a COMS to measure and record the opacity of emissions existing each stack according to the following requirements:	40 <u>CFR</u> 63 63.7331 Chapter 18
	A. Install, operate, and maintain each COMS according to the requirements in 63.8(e) of 40 <u>CFR</u> 63, and Performance Specification 1 in 40 <u>CFR</u> 60, Appendix B. Identify periods the COMS is out-of-control, including any periods that the COMS fails to pass a daily calibration drift.	
	B. The permittee shall conduct a performance evaluation of each COMS according to the requirements in Section 63.8 and Performance Specification 1 in Appendix B to 40 CFR 60.	
	C. The permittee shall develop and implement a quality control program for operating and maintaining each COMS according to the requirements in 63.8(d) of 40 CFR 63. At minimum, the quality control program pages includes	
	alignment audit of each COMS. D. Each COMS shall complete a minimum of one cycle of campling and a light of the cycle of the	e
	successive 6-minute period. The permittee shall reduce the COMS data as specified in 63.8(g)(2) of 40 CFR 63	
	The permittee shall determine and record the hourly and daily (24-hour) average opacity according to the procedures in 63.7324(b) of 40 CFR 63 using all the 6-minute averages collected for periods during which the COMS is not out of	
	F. The Department shall be notified in writing 2 weeks prior to the COMS annual audit.	es .
5	Section 5 - Continuous Emission Monitoring Subpart CCCCC—Monitoring	
	A. Except for monitor malfunctions associated	40 <u>CFR</u> 63 53.7332 Chapter 18
	B. The permittee may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels.	
	Section 6-Recordkeeping and Reporting Requirements	
6	Unless the Administrator has approved a different schedule, the permittee shall submit quarterly compliance reports for battery stacks. 40 63 CI) <u>CFR</u> 63 3.7341 hapter 18
	A. The first quarterly compliance report for battery stacks must cover the period beginning on the compliance date that is specified for your affected source in 63.7283 of 40 CFR 63, and ending on the last date of the third calendar month. Each subsequent compliance report must cover the next calendar quarter.	
	B. A quarterly compliance report for battery stacks must be postmarked or delivered no later than one calendar month following the end of the quarterly reporting period.	
	C. The content of each quarterly report must provide information on compliance with the emission limitations for battery stacks in 63.7296 of 40 CFR 63. The reports must meet the requirements in 63.7341(b) of 40 CFR 63.	

17	Subpart CCCCC—Recordkeeping	40 CFR 63,
	A. The permittee shall keep the following records:	63.7342
	 A copy of each notification and report that the permittee submitted to comply with this subpart, including all documentation supporting any initial notification or notification of compliance status that the permittee submitted, according to requirements in 63.10(b)(2)(xiv) of 40 CFR 63; The records in 63.6(e)(3)(iii) through (v) of 40 CFR 63, related to startup, shutdown, and malfunction; and Records of performance tests, performance evaluations, and opacity observations as required by 63.10(b)(2)(viii) of 40 CFR 63 	Chapter 18
	 For each COMS, the permittee must keep the records below: Records described in 63.10(b)(2)(vi) through (xi) of 40 CFR 63; Monitoring data for COMS during a performance evaluation as required in 63.6(h)(7)(i) and (ii) of 40 CFR 63; Previous versions of the performance evaluation plan as required in 63.8(d)(3) of 40 CFR 63; and Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, 	
10	or malfunction or during another period	
18	The permittee shall keep records in a form suitable and readily available for expeditious	40 <u>CFR</u> 63, 63.7343 Chapter 18
	The permittee shall keep each record onsite for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record in accordance with 63.10(b)(1) of 40 CFR 63. The permittee can keep the records offsite for the remaining 3 years.	
19	The permittee shall submit by February 10th of each calendar year to this Department an	1.5.15 2.1.3 18.5.3

Emissions Unit No.:

008

Company:

ABC Coke

Source Description:

Underfire Stack Coke Oven Battery No. 1

Operating Schedule:

24 hours/day, 7 days/week, and 52 weeks/year

Pollutants Emitted:

Pollutant	Regulatory Emission Limit	T
Visible Emissions (VE)	20% Opacity/3-Minute Average per 60-Minute Period	Applicable Standard
Visible Emissions (VE)	20% Opacity/3-Windle Average per 60-Minute Period	Section 6.9.8
	20% Opacity during batterywide extended coking cycle; 15% Opacity during normal coking cycle (Tall battery greater than 5 meters in height)	40 <u>CFR</u> 63 (Subpart CCCCC)
Particulate Matter (PM)	0.10 lbs/MMBTU of Heat Input (Max. Capacity)	D
Particulate Matter (PM10)	N/A	Part 6.3
Sulfur Dioxide (SO2)	1.8 lbs/MMBTU of Heat Input	N/A
Nitrogen Oxides (NOx)	N/A	Section 7.1.1
Carbon Monoxide (CO)	N/A	N/A
Volatile Organic		N/A
Compounds (VOC)	N/A	N/A

Pollution Control Device:

None

Continuous Emission Monitors:

None

Continuous Compliance Determiner:

Daily Recordkeeping of Fuels Coke Oven Gas Combusted Maximum Heat Input Restricted to 360 MMBTU/hour

Monthly Testing of COG Sulfur Content Restricted to Coke Oven Gas Combustion

Operation of COMs-24 hour (daily average) of data

Work Practice Standards

Operation and Maintenance Requirements Start-up, Shutdown, and Maintenance Plan

Title V Monitoring:

Twice Weekly Visible Emissions Observation of Combustion Stack;

Installation of COMS

Monthly Sampling & Testing of COG Sulfur Content Monthly Sampling & Testing of COG Heat Content

EPA Reference Test Methods:

1, 2, 3, 4, 5, 6, 7 and 9 of 40 CFR 60, Appendix A

Reporting Requirements:

See Section 6

Applicable Regulations:

Section 1.5.15, Section 2.1.3, Part 6.1, Part 6.3, Section 6.9.8, Part 7.1,

Section 7.1.1, Part 18.5, Section 18.5.3, 40 CFR 60, 40 CFR 63

No.	Permit Conditions for Emissions Unit No. 008	Regulation
, -	Section 1 – Applicability	Regulation
1	Applicability The Emissions Unit 008, Underfire Stack of Batteries No. 1, permitted herein shall include any equipment, device, or contrivance and all appurtenances thereto, including ducts, fuel-feeding equipment, combustion controls, stacks and chimneys, and the combustion fuels used. The emissions unit is subject to the particulate emission rate allowed under Part 6.3, entitled "Fuel Burning Equipment," of the Regulations. The emissions unit is subject to the Regulations. The emissions unit is subject to Part 7.1, entitled "Fuel Combustion," of the Regulations. The emissions unit is subject to the major source emissions fees of Chapter 16 of the Regulations. The emissions unit is subject to Title V permitting requirements of Chapter 18 of the Regulations.	7.1 Chapter 16
2	General Compliance Requirements The permittee shall be in compliance with the emissions limitations, work practice standards, and operation and maintenance requirements in this subpart at all times, except during periods of startup, shutdown, and malfunction as defined in Section 62.2.	40 <u>CFR</u> 63 Chapter 18
	Startup, Shutdown, and Malfunction Plan The permittee shall develop and implement a written startup, shutdown, and malfunction plan according to the provisions of 63.6(e)(3) of 40 CFR 63. For COMS, a monitoring malfunction is any sudden, infrequent, not reasonably preventive failure of the monitor to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.	40 <u>CFR</u> 63 63.7332 Chapter 18
	Subpart CCCC The Emissions Unit No. 008 herein is subject to the requirements as fisted in Subpart CCCCC (National Emissions Standards for Hazardous Air Pollutants for Coke Ovens) of Part 63 of Title 40 of the Code of Federal Regulations. Section 2 Emission, Equipment or Production Requirements and Limitations Visible Emissions Postsini.	40 <u>CFR</u> 63 Chapter 18
1 C C C C C C C C C C C C C C C C C C C	The Emissions Unit No. 008 shall comply with the visible emissions requirements under Section 6.9.8 of the Rules and Regulations. There shall be no visible emissions, other than water mist or vapor, with an opacity greater than 20% from the combustion stack except for a period or periods aggregating not more than 3 minutes in any consecutive 60 minutes. Compliance with the opacity standard in this condition shall be determined by conducting observations in accordance with Reference Method 9 in Appendix A of 40 CFR 60. The permittee shall perform a visual observation of the emission unit's combustion stack and make a record of the visual observation at least twice per week for a period of 15 minutes or more. If any visible emissions (greater than 15% opacity) are observed, the permittee shall expeditiously correct the problem causing the emission unit of emit visible emissions and make a record of the event and the corrective actions. If the visible emissions cannot be corrected, the permittee shall have a certified Reference Method 9 observer determine the combustion stack's opacity within 24 bours.	2.1.3 6.9.8 18.5.3(a)(2)
a l	The permittee shall not discharge to the atmosphere any emissions from any battery stack t a existing by-product coke oven battery that exhibit an opacity greater than the pplicable limits shown below:	40 <u>CFR</u> 63, 63.7296 Chapter 18
13	. Daily average of 20% opacity for a battery on a battery-wide extended coking	

7	Particulate Emissions Restriction The Emissions Unit permitted herein is subject to and shall comply with the particulate emission rate restriction that is allowed under Part 6.3, entitled "Fuel Burning Equipment," of the Regulations. The permittee shall not cause or allow the emissions of particulate matter from the fuel-burning equipment permitted herein in excess of 0.10 pounds per million BTU of heat input (at 360 MMBTU/hr) as determined by EPA Reference Method 5 of Appendix A of 40 CFR 60, July 1, 2008, as the same may be amended or revised. To comply with Title V monitoring requirements, the permittee shall demonstrate compliance with this emission limit by certifying to the Department in writing that only clean coke oven gas is combusted in the emissions unit. This written certification shall be submitted	2.1.3 6.3 18.5 18.5.3(a)(2)
8	Sulfur Oxides Emissions Restriction The Emissions Unit permitted herein is subject to and shall comply with the sulfur oxide emission rate restriction that is allowed under Section 7.1.1 of the Rules and Regulations. The permittee shall not cause or allow the emissions of sulfur oxides, measured as sulfur dioxide, from the fuel-burning equipment permitted herein in excess of 1.8 pounds per million BTU of heat input as determined by EPA Reference Method 6C of Appendix A of 40 CFR 60, July 1, 2008, as the same may be amended or revised. To comply with Title V monitoring requirements, the permittee shall collect monthly samples of coke oven gas and determine the heat content of each fuel sample. The emissions unit is restricted to combusting coke oven gas.	2.1.3 7.1.1 18.5 18.5.3(a)(2)
9	Combustion Fuel Restriction The Emissions Unit permitted herein is restricted to combusting coke oven gas. This restriction shall be demonstrated by recording and maintaining a record of the amount (within ± 1% accuracy) of COG combusted each calculate.	2.1.3 18.5
10	The Emissions Unit permitted herein shall not exceed 360,000,000 BTUs per hour of heat input. This restriction shall be demonstrated by recording and maintaining a record of the amounts (within ± 1% accuracy/ ± 178 x 10 ³ CF/day on a 18-hour coking cycle/134 x 10 ³ CF/day on a 24-hour coking cycle) of fuel combusted and time operated each calendar day.	2.1.3
	Section 3 Compliance and Performance Test Methods and Procedures	
	The permittee shall determine compliance with the pertioulers	2.1.3 40 <u>CFR</u> 60

12	Subpart CCCCC—Performance Testing	40 CFR 63,
	The permittee shall conduct an initial and subsequent (continuous) performance test in	63.7324, and
	accordance with the following:	63.7326(d)
	accordance with the following.	
	To determine compliance with the daily average opacity limit for stacks of 15% for a by-	Chapter 18
	and dust asks swen betterwen a resmall asking and a 2000 feet to the stacks of 15% for a by-	
	product coke oven battery on a normal coking cycle or 20% for a by-product coke oven	
	battery on battery-wide extended coking, follow the test methods and procedures in items	
	1 through 3 below:	
	1. Using the continuous opacity monitoring system (COMS) required in	Š.
(C)	63.7330(e) of 40 CFR 63, measure and record the opacity of emissions	
	from each battery stack for a 24-hour period.	
	2. Reduce the monitoring data to hourly averages as specified in	
	63.8(g)(2) of 40 CFR 63, and	
	 Compute and record the 24-hour (daily) average of the COMS data. 	
	For each by-product coke oven battery stack subject to an opacity limit in 63.7296(a) 40	
	CFR 63, the permttee shall submit a notification of compliance status containing the	
	COMS performance test.	
	Section 4—Operation and Maintenance Requirements	
13	Good Engineering Paractices & Minimize Emissions to the Level of Subpart CCCCC	40 OFD 62
1,)	A. A required by 63.6(e)(1)(i) 40 CFR 63, the permittee shall operate and maintain	40 <u>CFR</u> 63,
	The state of the period of the	63.7300, and
	the affected source (batteries), including the air pollution control and monitoring	63.7331
	equipment, in a manner consistent with good air pollution control practices for	Chapter 18
	minimizing emissions at least to the levels required by this subpart.	
	 The permittee must prepare and operate at all times according to a 	
	written operating and maintenance plan for the general operation and	
	maintenance of the existing by-product coke oven batteries. Each plan	
	must address, at a minimum, the elements listed as follows:	
	 a. Frequency and method of recording underfire gas parameters; 	
	b. Frequency and method of recording battery operating	
	temperature, including measurement of individual flue and	
	cross-wall temperatures;	
	c. Procedures to prevent overcharging and undercharging of	
	ovens, including measurement of coal moisture, coal bulk	
	density, and procedures for determining volume of coal	
	charged;	
	d. Frequency and procedures for inspecting flues, burners, and	
	nozzles; and	
	e. The operating and maintenance plan must include requirements	
	to repair any defects or deficiencies noted in inspections as	
	described in Permit Condition 15 of this emissions unit.	
	Repairs are to be made before the next scheduled	

14	Subpart CCCCC—COMS—Operation, and Maintenance Requirements For Monitors For each by-product coke oven battery, the permittee shall install, operate, and maintain	40 <u>CFR</u> 63 63.7331
	following requirements:	the Chapter 18
	A. Install, operate, and maintain each COMS according to the requirements in 63.8(e) of 40 <u>CFR</u> 63 and Performance Specification 1 in 40 <u>CFR</u> 60, Appendix B. Identify periods the COMS is out-of-control, including any periods that the COMS fails to pass a daily calibration drift.	ng
	B. The permittee shall conduct a performance evaluation of each COMS according to the requirements in 63.8 of 40 CFR 63, and Performance Specification 1 in Appendix B to 40 CFR 60.	9
	C. The permittee shall develop and implement a quality control program for operating and maintaining each COMS according to the requirements in 63.8(d) of 40 <u>CFR</u> 63. At minimum, the quality control program must include a daily calibration drift assessment, quarterly performance audit, and a annual zero	I.C.
	alignment audit of each COMS. D. Each COMS shall complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period. The permittee shall reduce the COMS data as specified in 63.8(g)(2) of 40 CFR 63.	
	E The permittee shall determine and record the hourly and daily (24-hour) average opacity according to the procedures in 63.7324(b) of 40 CFR 63 using all the 6 minute averages collected for periods during which the COMS is not out-of-	
	control. F. The Department shall be notified in writing 2 weeks prior to the COMS annual audit. Section 5 – Continuous Emission Monitoring	
15	Subpart CCCCC—Monitoring	
	A. Except for monitor malfunctions, associated repairs, and required quality assurance or control activities (including as applicable, calibration checks and required zero and span adjustments), the permittee shall monitor continuously at all times the affected source is operating.	40 <u>CFR</u> 63 63.7332 Chapter 18
	B. The permittee may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels.	
	Section 6-Recordkeeping and Reporting Requirements	
16	Subpart CCCC—Reporting Requirements Unless the Administrator has approved a different schedule, the permittee shall submit quarterly compliance reports for battery stacks.	40 <u>CFR</u> 63 63.7341 Chapter 18
	A. The first quarterly compliance report for battery stacks must cover the period beginning on the compliance date that is specified for your affected source in 63.7283 of 40 CFR 63, and ending on the last date of the third calendar month. Each subsequent compliance report must cover the next calendar quarter.	
	B. A quarterly compliance report for battery stacks must be postmarked or delivered no later than one calendar month following the end of the quarterly reporting period.	
	C. The content of each quarterly report must provide information on compliance with the emission limitations for battery stacks in 63.7296 of 40 CFR 63. The	

	reports must meet the requirements in 63.7341(b) of 40 CFR 63.	
17	Subpart CCCCC—Recordkeeping	
17	A. The permittee shall keep the following records: 1. A copy of each notification and report that the permittee submitted to comply with this subpart, including all documentation supporting any initial notification or notification of compliance status that the permittee submitted, according to requirements in 63.10(b)(2)(xiv) of 40 CFR 63. 2. The records in 63.6(e)(3)(iii) through (v) of 40 CFR 63 related to startup, shutdown, and malfunction; and 3. Records of performance tests, performance evaluations, and opacity observations as required by 63.10(b)(2)(viii) of 40 CFR 63. B. For each COMS, the permittee must keep the records below: 1. Records described in Paragraphs 63.10(b)(2)(vi) through (xi) of 40 CFR 63;	40 <u>CFR</u> 63, 63.7342 Chapter 18
8	 Monitoring data for COMS during a performance evaluation as required in 63.6(h)(7)(i) and (ii) of 40 CFR 63; Previous versions of the performance evaluation plan as required in 63.8(d)(3) of 40 CFR 63; and Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period. 	
	review, according to 63.10(b)(1) of 40 <u>CFR</u> 63.	40 <u>CFR</u> 63, 63.7343 Chapter 18
1	As specified in 63.10(b)(1) of 40 <u>CFR</u> 63, the permittee shall keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, eport or record.	
), V	The permittee shall keep each record onsite for a least 2 years after the date of each recourrence, measurement, maintenance, corrective action, report, or record in accordance with 63.10(b)(1) of 40 <u>CFR</u> 63. The permittee can keep the records offsite for the remaining 3 years.	
a E he A B	nnual summary report for the previous calendar year in a few at this Department an	.5.15 .1.3 8.5.3

Emissions Unit No.:

018

Company:

ABC Coke

Source Description:

South Coke Quenching Tower

Operating Schedule:

24 hours/day, 7 days/week, and 52 weeks/year

Type and quantity of fuel used: None

Pollutants Emitted:

Pollutant	Regulatory Emission Limit	Applicable Standard
Visible Emissions (VE)	20 % Opacity	
Particulate Matter	34.65 pounds per hour	Section 6.1.1 Part 6.4
Total Dissolved Solids (TDS) or the Sum of the Concentration of benzene, benzo(a)pyrene, and naphthalene	TDS shall not exceed 1,100 milligrams per liter (mg/l) in water; or not to exceed the applicable site-specific limit approved by the permitting authority for benzene, benzo(a)pyrene, and naphthalene	Subpart CCCC

Pollution Control Device:

Baffles

Continuous Emission Monitors:

None

Continuous Compliance Determiner:

Equipment and Work Practice Standards

Title V Monitoring:

Weekly Testing of Quench Tower Water if TDS Content is Selected, or Monthly if Maintaining the Sum of the Concentrations of Benzene, Benzo(a)pyrene, and the Napthalene Used to Quench Hot Coke

EPA Reference Test Methods:

9 of 40 CFR 60, Part 1.10, Method 160.1 of 40 CFR 136.3

Reporting Requirements:

See Condition No. 7

Applicable Regulations:

Section 1.5.15, Section 1.9.1, Part 1.10, Section 2.1.3, Part 6.1, Part 6.2,

Part 6.4, Section 6.9.9, Part 18.5, Part 18.7, 40 CFR 60

	Permit Conditions for Emissions Unit No. 018	D
1	Section 1 – Applicability Applicability	Regulation
	The Emissions Unit, South Coke Quenching Tower, permitted herein shall include any equipment, device, or contrivance and all appurtenances thereto, including quenching towers and quench water. The emissions unit is subject to Section 6.9.9, entitled "Quenching," of the Rules and Regulations:	2.1.3 6.1 6.9.9 Chapter 18
	A. No person shall operate a coke oven plant without baffles installed and properly operating in the quench towers. B. Water introduced to the quenching station must be of a quality approved by the Health Officer. The emissions unit is subject to Chapter 18 of the Rules and Regulations. Section 2 Emission Equipment Power and	
2	Section 2 Emission, Equipment or Production Requirements and Limitations Visible Emissions Restriction	
3 3 3	The Emissions Unit permitted herein is subject to and shall comply with the requirements under Section 6.1.1, "Visible Emissions Restrictions for Stationary Sources," of the Rules and Regulations. The permittee shall not cause or allow the discharge into the atmosphere from the emissions unit permitted herein any air contaminant of an equivalent opacity greater than that designated as 20% opacity, as determined by a 6-minute average; except, during one 6-minute period in any 60-minute period, the permittee may discharge into the atmosphere any air contaminant of an equivalent opacity not greater than that designated as 40% opacity. Compliance with the opacity standard in this condition shall be determined by conducting observations in accordance with Reference Method 9 in Appendix A of 40 CFR 60. To comply with Title V emissions monitoring requirements, the permittee shall perform a visual observation of the emission unit's exhaust system and the permittee shall perform a visual observation of the emission unit's exhaust system and the observed, the permittee shall correct the problem causing the emission unit to emit wisible emissions and make a record of the event and the corrective actions. The permittee shall make such repairs within 1 calendar month of the observation. Subpart CCCCCC—Required Limitations The permittee shall meet the requirements in the following paragraphs related to quench extern limitations:	18.5
В	the water used for quenching must not exceed 1,100 milligrams per liter (mg/l); The sum of the concentrations of benzene, benzo(a)pyrene, and naphthalene in the water used for quenching must not exceed the applicable site-specific limit	
To	ection 3 Compliance and Performance Test Methods and Procedures	Regulation
Ev	very month the permittee shall perform an analysis for dissolved solids of the water to	1.9.1 1.10 2.1.3

5	Subp	art CCC	CC—Test Methods	40 <u>CFR</u> 63,
	If the	permitte	ee elects the TDS limit for quench water, 63.7295(a)(1)(i) of 40 CFR 63, the	63.7325 and
	Perm	rece silai	Il conduct each performance test that applies to the affected source according ons as follows:	63.7295
			and tonous,	
	Λ.	samp or an	the quench water sample from a location that provides a representative ble of the quench water as applied to the coke. The Department requires the location from the header that feeds water to the quench tower reservoirs alternate location approved by this Department. The permittee shall use	
	B.	Deter	mine the TDS concentration of the sample using Method 160.1 in 40 CFR	
	C.	Lait	50.5.	
		water	in paragraph 63.7295(a)(1)(ii), the permittee must establish a site-specific ituent limit according to the procedures in 63.7325 (b)(1) through (4) of 40	
	Section		missions Monitoring	
6	Subpa	rt CCCC	C—Monitoring	40 CFR 63,
	Begin	ning on th	he first day that compliance is required under 63.7283 of 40 CFR 63, and	63.7333
	Subsec	juent, the	permittee shall demonstrate continuous compliance with the TDS limit for	300
	quenci	ung in 6.	3.7295(a)91)(i) of 40 <u>CFR</u> 63, by meeting the following requirements:	
	A.	Mainta mg/l o	aining the TDS content of the water used to quench the hot coke at 1,100 or less; and	
		L	Measuring the TDS content of the quench water at least weekly according to the requirements in 63.7325(a) of 40 <u>CFR</u> 63, and recording the sample results; or	
		2.	Demonstrating continuous compliance with the constituent limit for quenching in 63.7295(a)(1)(ii) of 40 <u>CFR</u> 63, by the following requirements:	
	В.	naphtha site-spe of the c 63.732	alene in water used to quench hot coke at levels less than or equal to the ecific limit approved by the permitting authority; and determining the sum constituent concentrations at least monthly according to the requirements in 5(c) of 40 CFR 63, and recording the sample results.	
7	Departi	ment Req	puired Annual Report Requirement	2.1.3
	annual	summarv	nall submit by February 10th of each calendar year to this Department an report for the previous calendar year in a format approved by this	18.5
	Departi	ment of the	ha Collection 1 of the state of	18.7 40 <u>CFR</u> 63
	A. The	quantity	(in tons) of coal charged to the batteries associated with this emissions	
	A STATE OF THE PARTY OF THE PAR		d allowable emissions (point and fugitive) of all regulated air pollutants	
	as de	efined in	Chapter 18 of the Rules and Regulations; and	
	C. The	12-month	analysis for dissolved solids of the quench tower water.	1

Emissions Unit No.:

019

Company:

ABC Coke

Source Description:

204 MMBTU/Hr Babcock & Wilcox. Designated Boiler No. 8.

Operating Schedule:

24 hours/day, 7 days/week, and 52 weeks/year

Pollutants Emitted:

Regulatory Emission Limit	Applicable Standard
	Section 6.1.1
	Part 6.3
1.8 lbs/MMBTU of Heat Input	Section 7.1.1
NA	NA NA
NA	NA
NA	NA
	NA

Pollution Control Device:

None

Continuous Emission Monitors:

None

Continuous Compliance Determiner:

Daily Recordkeeping of Fuel Combusted

Maximum Heat Input Restricted to 204 MMBTU/hour

Coke Oven Gas Restricted to 5,957 MMCF/year for Boilers 7, 8, 9 and

the Flare.

Natural Gas Restricted to less than ten percent (10%) of the Total Fuel

Usage for Boilers 7,8, and 9

Restricted to Coke Oven Gas/Natural Gas Combustion

Title V Monitoring:

Daily Visible Emissions Observation of Boiler Stack Daily Fuel Combustion Metering (± 1% accuracy)

Monthly Sampling & Testing of Fuel Sulfur Content (COG) Monthly Sampling & Testing of Fuel Heat Content (COG)

EPA Reference Test Methods:

1, 2, 3, 4, 5, 6, 7 and 9 of 40 CFR 60, Appendix A

Reporting Requirements:

Permit Condition No. 10

Applicable Regulations:

Sections 2.1.3, 6.1.1 and 7.1.1

Parts 6.3 and 18.5

Chapters 2, 6, 7, 16 and 18

No.	Permit Conditions for Emissions Unit No. 019 Section 1 – Applicability	Regulation
1		
1	Applicability The Emissions Unit, 204 MMBTU/hour boiler, permitted herein shall include any equipment, device, or contrivance and all appurtenances thereto, including ducts, breechings, fuel-feeding equipment, ash removal equipment, combustion controls, stacks and chimneys, and the combustion fuels used. The emissions unit is subject to Part 6.1, entitled "Visible Emissions," of the Rules and Regulations. The emissions unit is subject to the particulate emission rate allowed under Part 6.3, entitled "Fuel Burning Equipment," of the Rules and Regulations. The emissions unit is subject to Part 7.1, entitled "Fuel Combustion," of the Rules and Regulations. The emissions unit is subject to Chapter 18 of the Rules and Regulations.	2.1.3 6.1 6.3 7.1 Chapter 18
-	Section 2 Emission, Equipment or Production Requirements and Limitations	
2	The Emissions Unit permitted herein is subject to and shall comply with the requirements under Section 6.1.1, "Visible Emissions Restrictions for Stationary Sources," of the Rules and Regulations. The permittee shall not cause or allow the discharge into the atmosphere from the emissions unit permitted herein any air contaminant of an equivalent opacity greater than that designated as 20% opacity, as determined by a 6-minute average; except, during one 6-minute period in any 60-minute period, the permittee may discharge into the atmosphere any air contaminant of an equivalent opacity not greater than that designated as 40% opacity. Compliance with the opacity standard in this condition shall be determined by conducting observations in accordance with Reference Method 9 in Appendix A of 40 CFR 60.	2.1.3 6.1.1 18.5
	Particulate Emissions Restriction The Emissions Unit permitted herein is subject to and shall comply with the particulate emission rate restriction that is allowed under Part 6.3, entitled "Fuel Burning Equipment," of the Rules and Regulations. The permittee shall not cause or allow the emissions of particulate matter from the fuel-burning equipment permitted herein in excess of 0.133 pounds per million BTU of heat input (at 204 MMMBTU/hr) as determined by EPA Reference Method 5 of Appendix A of 40 CFR 60, July 1, 2008, as the same may be amended or revised. For Title V monitoring requirements, the permittee shall demonstrate compliance with this emission limit by certifying to the Department in writing that only coke oven gas and natural gas is combusted in the emissions unit. This written certification shall be submitted biennially.	2.1.3 6.3 18.5
	Sulfur Oxides Emissions Restriction The Emissions Unit permitted herein is subject to and shall comply with the sulfur oxide emission rate restriction that is allowed under Section 7.1.1 of the Rules and Regulations. The permittee shall not cause or allow the emissions of sulfur oxides, measured as sulfur dioxide, from the fuel-burning equipment permitted herein in excess of 1.8 pounds per million BTU of heat input as determined by EPA Reference Method 6C of Appendix A of 40 CFR 60, July 1, 2008, as the same may be amended or revised. For Title V monitoring requirements, the permittee shall collect monthly samples of coke oven gas and analyze the coke oven gas for sulfur content by weight. The permittee shall also determine the heat content of the coke oven gas sampled. The emissions unit is restricted to combusting coke oven gas and natural gas.	2.1.3 7.1.1 18.5

No.	The state of the control of the cont	December's
5	Combustion Fuel Restriction	Regulation
	The Emissions Unit permitted herein is restricted to combusting coke oven gas/natural gas.	2.1.3
	This restriction shall be delifioustrated by recording and maintaining a record of the amount	10.3
	(Widin = 170 accuracy) of each fuel compusied each calendar day	
6	Heat Input Restriction	2.1.3
	The Emissions Unit permitted herein shall not exceed 204,000,000 BTUs per hour of heat	18.5
	input. This restriction shall be demonstrated by recording and maintaining a record of the	10.5
	amounts (within ± 1% accuracy) of fuel combusted and time operated each calendar day	
7	New Source Review Combustion Fuel Restriction	2.1.3
	The permittee shall not cause or allow the Emissions Unit Nos 020 010 001 and 021	18.5
	(Bollet Nos. 7, 8, 9, and Plare) to exceed combusting 5.957 million (MM) cubic feet par	10.5
	year of coke oven gas in any 12-month period based on an annual rolling average as	
	defined in Part 1.3 of the Rules and Regulations. This restriction shall be demonstrated by	
	recording and maintaining a record of the amount (within + 1% accuracy) of each fuel	
	compused in each boiler and time each boiler operated per calendar day.	
	Section 3 Compliance and Performance Test Methods and Procedures	Regulation
8	Test Methods and Procedures	2.1,3
	The permittee shall determine compliance with the particulate emissions, sulfur oxide	40 CFR 60
	emissions, and visible emissions restrictions of this permit by the following EPA's	10 2111 00
	reference methods under 40 CFR 60, Appendix A, July 1, 2008, as the same may be	
	amended or revised:	
	Method 1: Sample and Velocity Traverses	
	Method 2: Determination of Stack Gas Velocity and Volumetric Flow Rate	
	Method 3: Gas Analysis for Carbon Monoxide, Oxygen, Excess Air, and Dry M. W.	
	Method 4: Determination of Moisture Content in Stack Gases	
	Method 5: Determination of Particulate Emissions	
	Method 6C: Determination of Sulfur Dioxide Emissions	
	Method 7: Determination of Nitrogen Oxide Emissions	
	Method 9: Visual Determination of the Opacity of Emissions	
	Tutwiler Method: Sulfur Content (H2S, hydrogen sulfide) in Gas Mixtures	
	Calorimeter: Determination of Heat Content of Fuels in BTU per Cubic Foot	
	Section 4 - Continuous Emission Monitoring - Not Applicable	
	Section 5 Recordkeeping and Reporting Requirements	
	Department Required Annual Report Requirement	1.5.15
	The permittee shall submit by February 10th of each calendar year to this Department an	2.1.3
	annual summary report for the previous calendar year in a format approved by this	18.5.3
	Department of the following production information of the emissions unit permitted herein:	
4		
	A. The actual hours of operation differentiation between hours of combusting coke oven gas and natural gas;	
	B. The actual and allowable emissions (point and fugitive) of all regulated air pollutants	
- 4	as defined in Chapter 18 of the Rules and Regulations;	
	C. The quantity of coke oven gas and natural gas burned in million cubic	
	feet; and	
	D. The average monthly total sulfur content and heat content of the coke oven gas.	

Emissions Unit No.:

020

Company:

ABC Coke

Source Description:

204 MMBTU/Hr Babcock & Wilcox. Designated Boiler No. 7.

Operating Schedule:

24 hours/day, 7 days/week, and 52 weeks/year

Pollutants Emitted:

Pollutant	Regulatory Emission Limit	A - 1' 11 0 1 1
Visible Emissions (VE)	20 % Opacity	Applicable Standard
Particulate Matter (PM)		Section 6.1.1
Sulfur Dioxide (SO2)	0.133 lbs/MMBTU of Heat Input (Max. Capacity)	Part 6.3
Nitrogen Oxides (NOx)	1.8 lbs/MMBTU of Heat Input	Section 7.1.1
	NA	NA
Carbon Monoxide (CO)	NA	NA
Volatile Organic Compounds (VOC)	NA	NA

Pollution Control Device:

None

Continuous Emission Monitors:

None

Continuous Compliance Determiner:

Daily Recordkeeping of Fuel Combusted

Maximum Heat Input Restricted to 204 MMBTU/hour

Coke Oven Gas Restricted to 5,957 MMCF/year for Boilers 7, 8, 9, and

the Flare.

Natural Gas Restricted to less than ten percent (10%) of the Total Fuel

Usage for Boilers 7,8, and 9

Restricted to Coke Oven Gas/Natural Gas Combustion

Title V Monitoring:

Daily Visible Emissions Observation of Boiler Stack Daily Fuel Combustion Metering (± 1% accuracy)

Monthly Sampling & Testing of Fuel Sulfur Content (COG) Monthly Sampling & Testing of Fuel Heat Content (COG)

EPA Reference Test Methods:

1, 2, 3, 4, 5, 6, 7 and 9 of 40 CFR 60, Appendix A

Reporting Requirements:

Permit Condition No. 10

Applicable Regulations:

Sections 2.1.3, 6.1.1 and 7.1.1

Parts 6.3 and 18.5

Chapters 2, 6, 7, 16 and 18

No.	Permit Conditions for Emissions Unit No. 020	Regulation
1	Section 1 - Applicability	, cegulation
1	Applicability The Emissions Unit, 204 MMBTU/hour boiler, permitted herein shall include any equipment, device, or contrivance and all appurtenances thereto, including ducts, breechings, fuel-feeding equipment, ash removal equipment, combustion controls, stacks and chimneys, and the combustion fuels used. The emissions unit is subject to Part 6.1, entitled "Visible Emissions," of the Rules and Regulations. The emissions unit is subject to the particulate emission rate allowed under Part 6.3, entitled "Fuel Burning Equipment," of the Rules and Regulations. The emissions unit is subject to Part 7.1, entitled "Fuel Combustion," of the Rules and Regulations. The emissions unit is subject to Chapter 18 of the Rules and Regulations.	4
,	Section 2 Emission, Equipment or Production Requirements and Limitations	
2	The Emissions Unit permitted herein is subject to and shall comply with the requirements under Section 6.1.1, "Visible Emissions Restrictions for Stationary Sources," of the Rules and Regulations. The permittee shall not cause or allow the discharge into the atmosphere from the emissions unit permitted herein any air contaminant of an equivalent opacity greater than that designated as 20% opacity, as determined by a 6-minute average; except, during one 6-minute period in any 60-minute period, the permittee may discharge into the atmosphere any air contaminant of an equivalent opacity not greater than that designated as 40% opacity. Compliance with the opacity standard in this condition shall be determined by conducting observations in accordance with Reference Method 9 in Appendix A of 40 CFR 60.	2.1.3 6.1.1 18.5
	Particulate Emissions Restriction The Emissions Unit permitted herein is subject to and shall comply with the particulate emission rate restriction that is allowed under Part 6.3, entitled "Fuel Burning Equipment," of the Rules and Regulations. The permittee shall not cause or allow the emissions of particulate matter from the fuel-burning equipment permitted herein in excess of 0.133 pounds per million BTU of heat input (at 204 MMMBTU/hr) as determined by EPA Reference Method 5 of Appendix A of 40 CFR 60, July 1, 2008, as the same may be amended or revised. For Title V monitoring requirements, the permittee shall demonstrate compliance with this emission limit by certifying to the Department in writing that only coke oven gas and natural gas is combusted in the emissions unit. This written certification shall be submitted biennially.	2.1.3 6.3 18.5
	Sulfur Oxides Emissions Restriction The Emissions Unit permitted herein is subject to and shall comply with the sulfur oxide emission rate restriction that is allowed under Section 7.1.1 of the Rules and Regulations. The permittee shall not cause or allow the emissions of sulfur oxides, measured as sulfur dioxide, from the fuel-burning equipment permitted herein in excess of 1.8 pounds per million BTU of heat input as determined by EPA Reference Method 6C of Appendix A of 40 CFR 60, July 1, 2008, as the same may be amended or revised. For Title V monitoring requirements, the permittee shall collect monthly samples of coke oven gas and analyze the coke oven gas for sulfur content by weight. The permittee shall also determine the heat content of the coke oven gas sampled. The emissions unit is restricted to combusting coke oven gas and natural gas.	2.1.3 7.1.1 18.5

5	Permit Conditions for Emissions Unit No. 020 Combustion Fuel Restriction	Regulation
	The Emissions Unit permitted beautiful	212
ĺ	This restriction shall be demonstrated by recording and maintaining a record of the amount (within ± 1% accuracy) of each fuel combusted each calendar described by the state of the amount (within ± 1% accuracy) of each fuel combusted each calendar described by the state of the amount (within ± 1% accuracy) of each fuel combusted each calendar described by the state of the state o	2.1.3
	(within + 1% accuracy) of the amount	18.5
6	(within ± 1% accuracy) of each fuel combusted each calendar day.	
	The Emissions Unit assertion	10.0
	The Emissions Unit permitted herein shall not exceed 204,000,000 BTUs per hour of heat input. This restriction shall be demonstrated by recording and maintain.	2.1.3
	input. This restriction shall be demonstrated by recording and maintaining a record of the amounts (within \pm 1% accuracy) of fuel combusted and time apparent	18.5
7	amounts (within ± 1% accuracy) of fuel combusted and time operated each calendar day. New Source Review Combustion Fuel Restriction	
	New Source Review Combustion Fuel Restriction The permittee shall combustion Fuel Restriction	1
		2.1.3
	(Boiler Nos. 7, 8, 9, and Flare) to exceed combusting 5,957 million (MM) cubic feet per	18.5
	year of coke oven gas in any 12-month period based on an annual rolling average as	
	defined in Part 1.3 of the Rules and Regulations. This restriction shall be demonstrated by recording and maintaining a record of the amount (within ± 1% accounts).	1
- 8	recording and maintaining a record of the amount (within ± 1% accuracy) of each fuel combusted in each boiler and time each boiler operated pay solve the second of the amount (within ± 1% accuracy) of each fuel	
	combusted in each boiler and time each boiler operated per calendar day.	
3	Section 3 Compliance and Performance Test Methods and Procedures Test Methods and Procedures	
	Test Methods and Procedures The Procedures	Regulation
-	The permittee shall determine compliance with the particulate emissions, sulfur oxide emissions, and visible emissions restrictions of this permit by the fall.	2.1.3
	emissions, and visible emissions restrictions of this permit by the following EPA's	40 CFR 60
- 1	reference methods under 40 CFR 60, Appendix A, July 1, 2008, as the same may be	
- 1		
- 1	Mother of Tevised:	
- 1	Wethod 1: Sample and Valuete m	
	Method 1: Sample and Velocity Traverses Method 2: Determination of Standard Control	
	Method 1: Sample and Velocity Traverses Method 2: Determination of Stack Gas Velocity and Volumetric Flow Rate	
	Method 1: Sample and Velocity Traverses Method 2: Determination of Stack Gas Velocity and Volumetric Flow Rate Method 3: Gas Analysis for Carbon Monoxide, Oxygen, Excess Air, and Dry M. W	
	Method 1: Sample and Velocity Traverses Method 2: Determination of Stack Gas Velocity and Volumetric Flow Rate Method 3: Gas Analysis for Carbon Monoxide, Oxygen, Excess Air, and Dry M. W. Method 4: Determination of Moisture Content in Stack Gases	
	Method 1: Sample and Velocity Traverses Method 2: Determination of Stack Gas Velocity and Volumetric Flow Rate Method 3: Gas Analysis for Carbon Monoxide, Oxygen, Excess Air, and Dry M. W. Method 4: Determination of Moisture Content in Stack Gases Method 5: Determination of Particulate Emissions	
	Method 1: Sample and Velocity Traverses Method 2: Determination of Stack Gas Velocity and Volumetric Flow Rate Method 3: Gas Analysis for Carbon Monoxide, Oxygen, Excess Air, and Dry M. W. Method 4: Determination of Moisture Content in Stack Gases Method 5: Determination of Particulate Emissions Method 6C: Determination of Sulfur Dioxide Emissions Method 7: Determination of Missions Oxide Emissions	
	Method 1: Sample and Velocity Traverses Method 2: Determination of Stack Gas Velocity and Volumetric Flow Rate Method 3: Gas Analysis for Carbon Monoxide, Oxygen, Excess Air, and Dry M. W. Method 4: Determination of Moisture Content in Stack Gases Method 5: Determination of Particulate Emissions Method 6C: Determination of Sulfur Dioxide Emissions Method 7: Determination of Nitrogen Oxide Emissions Method 9: Visual Determination of Sulfur Dioxide Emissions	
	Method 1: Sample and Velocity Traverses Method 2: Determination of Stack Gas Velocity and Volumetric Flow Rate Method 3: Gas Analysis for Carbon Monoxide, Oxygen, Excess Air, and Dry M. W. Method 4: Determination of Moisture Content in Stack Gases Method 5: Determination of Particulate Emissions Method 6C: Determination of Sulfur Dioxide Emissions Method 7: Determination of Nitrogen Oxide Emissions Method 9: Visual Determination of the Opacity of Emissions Futwiler Method: Sulfur Content (Mes.)	
1 1 1 1 1 1 1 1 1	Method 1: Sample and Velocity Traverses Method 2: Determination of Stack Gas Velocity and Volumetric Flow Rate Method 3: Gas Analysis for Carbon Monoxide, Oxygen, Excess Air, and Dry M. W. Method 4: Determination of Moisture Content in Stack Gases Method 5: Determination of Particulate Emissions Method 6C: Determination of Sulfur Dioxide Emissions Method 7: Determination of Nitrogen Oxide Emissions Method 9: Visual Determination of the Opacity of Emissions Cutwiler Method: Sulfur Content (H2S, hydrogen sulfide) in Gas Mixtures	
	Method 1: Sample and Velocity Traverses Method 2: Determination of Stack Gas Velocity and Volumetric Flow Rate Method 3: Gas Analysis for Carbon Monoxide, Oxygen, Excess Air, and Dry M. W. Method 4: Determination of Moisture Content in Stack Gases Method 5: Determination of Particulate Emissions Method 6C: Determination of Sulfur Dioxide Emissions Method 7: Determination of Nitrogen Oxide Emissions Method 9: Visual Determination of the Opacity of Emissions Futwiler Method: Sulfur Content (H2S, hydrogen sulfide) in Gas Mixtures Calorimeter: Determination of Heat Content of Fuels in BTU per Cubic Foot	
I I I I I I I I I I I I I I I I I I I	Method 1: Sample and Velocity Traverses Method 2: Determination of Stack Gas Velocity and Volumetric Flow Rate Method 3: Gas Analysis for Carbon Monoxide, Oxygen, Excess Air, and Dry M. W. Method 4: Determination of Moisture Content in Stack Gases Method 5: Determination of Particulate Emissions Method 6C: Determination of Sulfur Dioxide Emissions Method 7: Determination of Nitrogen Oxide Emissions Method 9: Visual Determination of the Opacity of Emissions Futwiler Method: Sulfur Content (H2S, hydrogen sulfide) in Gas Mixtures Calorimeter: Determination of Heat Content of Fuels in BTU per Cubic Foot Section 4 - Continuous Emission Monitoring - Not Applicable	
I I I I I I I I I I I I I I I I I I I	Method 1: Sample and Velocity Traverses Method 2: Determination of Stack Gas Velocity and Volumetric Flow Rate Method 3: Gas Analysis for Carbon Monoxide, Oxygen, Excess Air, and Dry M. W. Method 4: Determination of Moisture Content in Stack Gases Method 5: Determination of Particulate Emissions Method 6C: Determination of Sulfur Dioxide Emissions Method 7: Determination of Nitrogen Oxide Emissions Method 9: Visual Determination of the Opacity of Emissions Futwiler Method: Sulfur Content (H2S, hydrogen sulfide) in Gas Mixtures Calorimeter: Determination of Heat Content of Fuels in BTU per Cubic Foot Section 4 - Continuous Emission Monitoring - Not Applicable Department Required Appared B. Department Required Appared B.	
I I I I I I I I I I I I I I I I I I I	Method 1: Sample and Velocity Traverses Method 2: Determination of Stack Gas Velocity and Volumetric Flow Rate Method 3: Gas Analysis for Carbon Monoxide, Oxygen, Excess Air, and Dry M. W. Method 4: Determination of Moisture Content in Stack Gases Method 5: Determination of Particulate Emissions Method 6C: Determination of Sulfur Dioxide Emissions Method 7: Determination of Nitrogen Oxide Emissions Method 9: Visual Determination of the Opacity of Emissions Tutwiler Method: Sulfur Content (H2S, hydrogen sulfide) in Gas Mixtures Calorimeter: Determination of Heat Content of Fuels in BTU per Cubic Foot Section 4 - Continuous Emission Monitoring - Not Applicable Department Required Annual Report Requirement The permittee shall submit by Fall submit by Particular	.5.15
I I I I I I I I I I I I I I I I I I I	Method 1: Sample and Velocity Traverses Method 2: Determination of Stack Gas Velocity and Volumetric Flow Rate Method 3: Gas Analysis for Carbon Monoxide, Oxygen, Excess Air, and Dry M. W. Method 4: Determination of Moisture Content in Stack Gases Method 5: Determination of Particulate Emissions Method 6C: Determination of Sulfur Dioxide Emissions Method 7: Determination of Nitrogen Oxide Emissions Method 9: Visual Determination of the Opacity of Emissions Futwiler Method: Sulfur Content (H2S, hydrogen sulfide) in Gas Mixtures Calorimeter: Determination of Heat Content of Fuels in BTU per Cubic Foot Section 4 — Continuous Emission Monitoring — Not Applicable Department Required Annual Reporting Requirements The permittee shall submit by February 10th of each calendar year to this Department and provided in the permittee shall submit by February 10th of each calendar year to this Department and provided in the permittee shall submit by February 10th of each calendar year to this Department and provided in the permittee shall submit by February 10th of each calendar year to this Department and provided in the permittee shall submit by February 10th of each calendar year to this Department and provided in the permittee shall submit by February 10th of each calendar year to this Department and provided in the permittee shall submit by February 10th of each calendar year to this Department and provided in the permittee shall submit by February 10th of each calendar year to this Department and provided in the permittee shall submit by February 10th of each calendar year to this Department and provided in the permittee shall submit by February 10th of each calendar year to this Department and provided in the permittee shall submit by February 10th of each calendar year to this Department and provided in the permittee shall submit by February 10th of each calendar year to this Department and provided in the permittee shall submit by February 10th of each calendar year to this permittee shall submit by Febru	1.3
I I I I I I I I I I I I I I I I I I I	Method 1: Sample and Velocity Traverses Method 2: Determination of Stack Gas Velocity and Volumetric Flow Rate Method 3: Gas Analysis for Carbon Monoxide, Oxygen, Excess Air, and Dry M. W. Method 4: Determination of Moisture Content in Stack Gases Method 5: Determination of Particulate Emissions Method 6C: Determination of Sulfur Dioxide Emissions Method 7: Determination of Nitrogen Oxide Emissions Method 9: Visual Determination of the Opacity of Emissions Futwiler Method: Sulfur Content (H2S, hydrogen sulfide) in Gas Mixtures Calorimeter: Determination of Heat Content of Fuels in BTU per Cubic Foot Section 4 — Continuous Emission Monitoring — Not Applicable Department Required Annual Reporting Requirements The permittee shall submit by February 10th of each calendar year to this Department and provided in the permittee shall submit by February 10th of each calendar year to this Department and provided in the permittee shall submit by February 10th of each calendar year to this Department and provided in the permittee shall submit by February 10th of each calendar year to this Department and provided in the permittee shall submit by February 10th of each calendar year to this Department and provided in the permittee shall submit by February 10th of each calendar year to this Department and provided in the permittee shall submit by February 10th of each calendar year to this Department and provided in the permittee shall submit by February 10th of each calendar year to this Department and provided in the permittee shall submit by February 10th of each calendar year to this Department and provided in the permittee shall submit by February 10th of each calendar year to this Department and provided in the permittee shall submit by February 10th of each calendar year to this Department and provided in the permittee shall submit by February 10th of each calendar year to this Department and provided in the permittee shall submit by February 10th of each calendar year to this permittee shall submit by Febru	
I I I I I I I I I I I I I I I I I I I	Method 1: Sample and Velocity Traverses Method 2: Determination of Stack Gas Velocity and Volumetric Flow Rate Method 3: Gas Analysis for Carbon Monoxide, Oxygen, Excess Air, and Dry M. W. Method 4: Determination of Moisture Content in Stack Gases Method 5: Determination of Particulate Emissions Method 6C: Determination of Sulfur Dioxide Emissions Method 7: Determination of Nitrogen Oxide Emissions Method 9: Visual Determination of the Opacity of Emissions Tutwiler Method: Sulfur Content (H2S, hydrogen sulfide) in Gas Mixtures Calorimeter: Determination of Heat Content of Fuels in BTU per Cubic Foot Section 4 — Continuous Emission Monitoring — Not Applicable Section 5 Recordkeeping and Reporting Requirements Department Required Annual Report Requirement The permittee shall submit by February 10th of each calendar year to this Department an epartment of the following production information of the emissions unit permitted	1.3
I I I I I I I I I I I I I I I I I I I	Method 1: Sample and Velocity Traverses Method 2: Determination of Stack Gas Velocity and Volumetric Flow Rate Method 3: Gas Analysis for Carbon Monoxide, Oxygen, Excess Air, and Dry M. W. Method 4: Determination of Moisture Content in Stack Gases Method 5: Determination of Particulate Emissions Method 6C: Determination of Sulfur Dioxide Emissions Method 7: Determination of Nitrogen Oxide Emissions Method 9: Visual Determination of the Opacity of Emissions Tutwiler Method: Sulfur Content (H2S, hydrogen sulfide) in Gas Mixtures Calorimeter: Determination of Heat Content of Fuels in BTU per Cubic Foot Section 4 — Continuous Emission Monitoring — Not Applicable Section 5 Recordkeeping and Reporting Requirements Department Required Annual Report Requirement The permittee shall submit by February 10th of each calendar year to this Department an epartment of the following production information of the emissions unit permitted	1.3
I I I I I I I I I I I I I I I I I I I	Method 1: Sample and Velocity Traverses Method 2: Determination of Stack Gas Velocity and Volumetric Flow Rate Method 3: Gas Analysis for Carbon Monoxide, Oxygen, Excess Air, and Dry M. W. Method 4: Determination of Moisture Content in Stack Gases Method 5: Determination of Particulate Emissions Method 6C: Determination of Sulfur Dioxide Emissions Method 7: Determination of Nitrogen Oxide Emissions Method 9: Visual Determination of the Opacity of Emissions Tutwiler Method: Sulfur Content (H2S, hydrogen sulfide) in Gas Mixtures Calorimeter: Determination of Heat Content of Fuels in BTU per Cubic Foot Section 4 — Continuous Emission Monitoring — Not Applicable Section 5 Recordkeeping and Reporting Requirements Department Required Annual Report Requirement The permittee shall submit by February 10th of each calendar year to this Department an epartment of the following production information of the emissions unit permitted The actual hours of operation differentiation between hours of combusting coke oven	1.3
I I I I I I I I I I I I I I I I I I I	Method 1: Sample and Velocity Traverses Method 2: Determination of Stack Gas Velocity and Volumetric Flow Rate Method 3: Gas Analysis for Carbon Monoxide, Oxygen, Excess Air, and Dry M. W. Method 4: Determination of Moisture Content in Stack Gases Method 5: Determination of Particulate Emissions Method 6C: Determination of Sulfur Dioxide Emissions Method 7: Determination of Nitrogen Oxide Emissions Method 9: Visual Determination of the Opacity of Emissions Futwiler Method: Sulfur Content (H2S, hydrogen sulfide) in Gas Mixtures Calorimeter: Determination of Heat Content of Fuels in BTU per Cubic Foot Section 4 – Continuous Emission Monitoring – Not Applicable Section 5 Recordkeeping and Reporting Requirements The permittee shall submit by February 10th of each calendar year to this Department an epartment of the following production information of the emissions unit permitted The actual hours of operation differentiation between hours of combusting coke oven gas and natural gas; The actual and allowable emissions (as in the fact of the status)	1.3
I I I I I I I I I I I I I I I I I I I	Method 1: Sample and Velocity Traverses Method 2: Determination of Stack Gas Velocity and Volumetric Flow Rate Method 3: Gas Analysis for Carbon Monoxide, Oxygen, Excess Air, and Dry M. W. Method 4: Determination of Moisture Content in Stack Gases Method 5: Determination of Particulate Emissions Method 6C: Determination of Sulfur Dioxide Emissions Method 7: Determination of Nitrogen Oxide Emissions Method 9: Visual Determination of the Opacity of Emissions Tutwiler Method: Sulfur Content (H2S, hydrogen sulfide) in Gas Mixtures Calorimeter: Determination of Heat Content of Fuels in BTU per Cubic Foot Section 4 — Continuous Emission Monitoring — Not Applicable Department Required Annual Report Requirement The permittee shall submit by February 10th of each calendar year to this Department an epartment of the following production information of the emissions unit permitted The actual hours of operation differentiation between hours of combusting coke oven gas and natural gas; The actual and allowable emissions (point and fugitive) of all regulated air pollutants as defined in Chapter 18 of the Pulls and fugitive) of all regulated air pollutants	1.3
I I I I I I I I I I I I I I I I I I I	Method 1: Sample and Velocity Traverses Method 2: Determination of Stack Gas Velocity and Volumetric Flow Rate Method 3: Gas Analysis for Carbon Monoxide, Oxygen, Excess Air, and Dry M. W. Method 4: Determination of Moisture Content in Stack Gases Method 5: Determination of Particulate Emissions Method 6C: Determination of Sulfur Dioxide Emissions Method 7: Determination of Nitrogen Oxide Emissions Method 9: Visual Determination of the Opacity of Emissions Tutwiler Method: Sulfur Content (H2S, hydrogen sulfide) in Gas Mixtures Calorimeter: Determination of Heat Content of Fuels in BTU per Cubic Foot Section 4 — Continuous Emission Monitoring — Not Applicable Department Required Annual Report Requirement The permittee shall submit by February 10th of each calendar year to this Department an epartment of the following production information of the emissions unit permitted The actual hours of operation differentiation between hours of combusting coke oven gas and natural gas; The actual and allowable emissions (point and fugitive) of all regulated air pollutants as defined in Chapter 18 of the Pulls and fugitive) of all regulated air pollutants	1.3
I I I I I I I I I I I I I I I I I I I	Method 1: Sample and Velocity Traverses Method 2: Determination of Stack Gas Velocity and Volumetric Flow Rate Method 3: Gas Analysis for Carbon Monoxide, Oxygen, Excess Air, and Dry M. W. Method 4: Determination of Moisture Content in Stack Gases Method 5: Determination of Particulate Emissions Method 6C: Determination of Sulfur Dioxide Emissions Method 7: Determination of Nitrogen Oxide Emissions Method 9: Visual Determination of the Opacity of Emissions Futwiler Method: Sulfur Content (H2S, hydrogen sulfide) in Gas Mixtures Calorimeter: Determination of Heat Content of Fuels in BTU per Cubic Foot Section 4 – Continuous Emission Monitoring – Not Applicable Section 5 Recordkeeping and Reporting Requirements The permittee shall submit by February 10th of each calendar year to this Department an epartment of the following production information of the emissions unit permitted The actual hours of operation differentiation between hours of combusting coke oven gas and natural gas; The actual and allowable emissions (as in the fact of the status)	1.3

Emissions Unit No.:

024

Company:

ABC Coke

Source Description:

North Coke Quenching Tower

Operating Schedule:

24 hours/day, 7 days/week, and 52 weeks/year

Type and quantity of fuel used: None

Pollutants Emitted:

Pollutant	Regulatory Emission Limit	
Visible Emissions (VE)	20 % Opacity	Applicable Standard
Particulate Matter	The state of the s	Section 6.1.1
	30.34 pounds per hour	Part 6.4
Total Dissolved Solids (TDS) or the Sum of the Concentration of benzene, benzo(a)pyrene, and napthalene	TDS shall not exceed 1,100 milligrams per liter (mg/l) in water; or not to exceed the applicable site-specific limit approved by the permitting authority for benzene, benzo(a) pyrene, and napthalene	Subpart CCCC

Pollution Control Device:

Baffles

Continuous Emission Monitors:

None

Continuous Compliance Determiner:

Equipment and Work Practice Standards

Title V Monitoring:

Weekly Testing of Quench Tower Water if TDS Content is Selected, or Monthly if Maintaining the Sum of the Concentrations of Benzene, Benzo(a)pyrene, and the Napthalene Used to Quench Hot Coke

EPA Reference Test Methods:

9 of 40 CFR 60, Part 1.10, Method 160.1 of 40 CFR 136.3

Reporting Requirements:

Condition No. 7

Applicable Regulations:

Section 1.5.15, Section 1.9.1, Part 1.10, Section 2.1.3, Part 6.1, Part 6.2,

Part 6.4, Section 6.9.9, Part 18.5, Part 18.7, 40 CFR 60

	Permit Conditions for Emissions Unit No. 024 Section 1 – Applicability	Regulation
I	Applicability Applicability	Regulation
	The Emissions Unit, North Coke Quenching Tower, permitted herein shall include any equipment, device, or contrivance and all appurtenances thereto, including quenching towers and quench water. The emissions unit is subject to Section 6.9.9, entitled "Quenching," of the Rules and Regulations:	2.1.3 6.1 6.9.9 Chapter 18
	A. No person shall operate a coke oven plant without baffles installed and properly operating in the quench towers B. Water introduced to the quenching station must be of a quality approved by the Health Officer The emissions unit is subject to Chapter 18 of the P. I.	
2	Edulphien of Production D	
~	The Emissions Unit permitted herein is subject to and shall comply with the requirements under Section 6.1.1, "Visible Emissions Restrictions for Stationary Sources," of the Rules and Regulations. The permittee shall not cause or allow the discharge into the atmosphere	18.5
5	during one 6-minute period in any 60-minute period, the permittee may discharge into the atmosphere any air contaminant of an equivalent opacity not greater than that designated as 40% opacity. Compliance with the opacity standard in this condition shall be determined by conducting observations in accordance with Reference Method 9 in Appendix A of 40 CFR 60. To comply with Title V emissions monitoring requirements, the permittee shall perform a visual observation of the emission unit's exhaust system and are observed, the permittee shall correct the problem causing the emission unit to emit shall make such repairs within 1 calendar month of the observation.	
V	vater limitations: For the quenching of hot coke the connected:	40 <u>CFR</u> 63, 63,7295
В	The sum of the concentrations of benzene, benzo(a)pyrene, and naphthalene in approved by the permitting authority.	9
80	ection 3 Compliance and Performance Test Motheday 1 D	13
		Regulation
EV	very month the permittee shall perform an analysis for dissolved solids of the water to	1.9.1
the		1.10 2.1.3

5	Subj	oart CCC	CC—Test Methods	1.0 000
	If the perm	e permitte ittee sha	ce elects the TDS limit for quench water, 63.7295(a)(1)(i) of 40 <u>CFR</u> 63, the ll conduct each performance test that applies to the affected source according ons as follows:	40 <u>CFR</u> 63, 63.7325 and 63.7295
	A. B.	samp or an acce	the quench water sample from a location that provides a representative ole of the quench water as applied to the coke. The Department requires the ole location from the header that feeds water to the quench tower reservoirs alternate location approved by this Department. The permittee shall use otable makeup water, as defined in 63.7352 of 40 CFR 63.	
	C.	If at a water	any time the permittee elects to meet the alternate requirements, for quench in 63.7295(a)(1)(ii) of 40 <u>CFR</u> 63, the permittee must establish a site-fic constituent limit according to the procedures in 63.7325(b)(1) through 40 <u>CFR</u> 63.	
	Section	on 4 – Er	nissions Monitoring	
6	Begin subsec	ning on t quent, the	C—Monitoring the first day that compliance is required under 63.7283 of 40 CFR 63, and a permittee shall demonstrate continuous compliance with the TDS limit for 3.7295(a)9(1)(i) of 40 CFR 63, by meeting the following requirements:	40 <u>CFR</u> 63, 63.7333
	A.	Maint mg/l o	ain the TDS content of the water used to quench the hot coke at 1,100 or less; and	
		1.	Measuring the TDS content of the quench water at least weekly according to the requirements in 63.7325(a) of 40 <u>CFR</u> 63, and recording the sample results; or	
		2.	Demonstrating continuous compliance with the constituent limit for quenching in 63.7295(a)(1)(ii) of 40 <u>CFR</u> 63, by the following requirements:	
	В.	of the 6	alene in water used to quench hot coke at levels less than or equal to the ecific limit approved by the permitting authority; and determining the sum constituent concentrations at least monthly according to the requirements in 5(c) of 40 CFR 63, and recording the sample results.	
- 1	The per annual. Departr herein:	ment Requirement Requirement Requirement Section 11 and 11	nail submit by February 10th of each calendar year to this Department an report for the previous calendar year in a format approved by this ne following production information of the emissions unit permitted (in tons) of coal charged to the batteries associated with this emissions	2.1.3 18.5 18.7 40 <u>CFR</u> 63
	B. The	actual an efined in	d allowable emissions (point and fugitive) of all regulated air pollutants Chapter 18 of the Rules and Regulations; and a analysis for dissolved solids of the quench tower water.	

Emissions Unit No.:

031

Company:

ABC Coke

Source Description:

Flare

Operating Schedule:

24 hours/day, 7 days/week, and 52 weeks/year

Type and quantity of fuel used: COG

Pollutants Emitted:

Pollutant	Regulatory Emission Limit	Applicable St. 1
Visible Emissions (VE)	20 % Opacity	Applicable Standard
	To to opacity	Section 6.1.1

Pollution Control Device:

None

Continuous Emission Monitors:

None

Continuous Compliance Determiner:

Daily Recordkeeping of Fuel Combusted

Coke Oven Gas Restricted to 5,957 MMCF/year (680 MCF/hr) for

Boilers 7, 8, 9, and the Flare

Coke Oven Gas Usage shall be reduced by 1.86 MMCF/yr for each

IMMCF/yr of Natural Gas usage Restricted to Coke Oven Gas

Title V Monitoring:

Daily Fuel Combustion Metering (± 1% accuracy)

Monthly Sampling & Testing of Fuel Heat Content (COG)

EPA Reference Test Methods:

1, 2, 3, 4, 5, 6C, 7, 7E, 9, 10, 18, 25, 25A of 40 CFR 60, Appenix A

Reporting Requirements:

Permit Condition No. 6

Applicable Regulations:

Sections 1.5, 15, 2.1.3, 6.1.1, 18.5.3, 18.7.4

Part 18.5

Chapters 2, 6, 16 and 18

No.	Permit Conditions for Emissions Unit No. 031 Section 1 – Applicability	Regulation
Ī	Applicability	- I againation
	The English At the Fig.	2.1.3
	The Emissions Unit, Flare, permitted herein shall include any equipment, device, or	6.1
	including ducts have been a control of the control	
	1 - Timperion, compusition conditions, stacks and chimneys and the to the	Chapter 18
	1 - 10 Chinostotio diffi to Supject to Part h I entitled "Visible E " "	1
	1 10 CHIISSIUMS WITH IS SUDJECT to Chapter 10 of the Dules and Dules	
	Section 2 Emission, Equipment or Production Requirements and Limitations	
2	VISIOR Ellissions Restriction	
	The Emissions Unit permitted herein is subject to and shall comply with the requirements	2.1.3
	under Section 6.1.1 "Visible Emissions Posteintia of Revision of R	6.1.1
	under Section 6.1.1, "Visible Emissions Restrictions for Stationary Sources," of the Rules	18.5
	and Regulations. The permittee shall not cause or allow the discharge into the atmosphere	N.
	1 on the chilosions tilli bellinilled herein any air contaminant of an and a	
	greater than that designated as 20% obacity as determined by a 6 minute	
	1 and by the original period the permittee man district	
	atmosphere any an containing of an equivalent operate not asset at	
	as 40 to opacity. Compliance with the opacity standard in this condition about the	
	determined by conducting observations in accordance with Reference Method 0 in	
	Appendix A of 40 CFR 60.	
	Combustion Fuel Restriction	2.1.3
	The Emissions Unit permitted herein is restricted to combusting coke oven gas. This	18.5
	restriction shall be defindistrated by recording and maintaining a record of the appoint	10.5
	(± 170 accuracy) of each fuel combusted each calendar day	
	Combustion Fuel Restriction: Boilers 7 8 9 and Flare	2.1.2
- 1	The permittee shall not cause or allow the Emissions Unit No. 031 (Class)	2.1.3
1	herein aggregated with Emissions Units Nos. 020, 019, and 001 (Boiler Nos.7, 8, and 9)	18.5
1	to exceed combusting 5,957 (MMCF/yr) million cubic feet per year of coke oven gas in	
	any 12-month period based on an annual rolling average as defined in Part 1.3 of the Rules	
	and Regulations.	
	Section 3 Compliance and Performance Test Methods and Procedures -N/A	
	Section 4 – Continuous Emissions Monitoring-N/A	
	Section 5- Recordkeeping and Reporting Requirements	
1000	Combustion Fuel Restriction Records	
	In accordance with the combustion fuel restrictions listed in this permit, the permittee shall	2.1.3
- 1	keen a monthly record of the amount (i. 10)	18.5.3
	keep a monthly record of the amount (± 1% accuracy) of coke oven gas combusted and the	
-	time of operation per calendar day for the permitted unit herein.	
	Department Required Annual Report Requirement	1.5.15
	The permittee shall submit by February 10th of each calendar year to this Department an	2.1.3
- 10	amual summary report for the previous calendar year in a format approved by this	18.5.3
	Department of the following production information of the emissions unit permitted	
	nerein:	
	A. The actual hours of operation differentiation between hours of combusting coke oven	
- 17	gas and natural gas;	
1	B. The actual emissions (point and fugitive) of all regulated air pollutants as defined in	
	Chapter 18 of the Rules and Regulations;	
010	22 W100 8	
	C. The quantity of coke oven gas and natural gas burned in million cubic feet; and D. The average monthly total heat content of the coke oven gas.	

Emissions Unit No.:

032

Company:

ABC Coke

Source Description:

Coke Pushing Operations of Coke Battery Nos. 1, 5, and 6

Operating Schedule:

24 hours/day, 7 days/week, and 52 weeks/year

Type and quantity of fuel used: N/A

Pollutants Emitted:

Pollutant	Regulatory Emission Limit	
Visible Emissions (VE)		Applicable Standards
Visible Emissions (VE)	20% Opacity	Part 6.1
D .: 1	40% Opacity	Section 6.9.4
Tarticulate Matter (PM)	0.02 pounds per ton of coke (lb/ton)	Subpart CCCCC

Pollution Control Device:

Baghouse

Continuous Emission Monitors:

None

EPA Reference Test Methods:

Method 1, 2, 2F, 2G, 3, 3A, 3B, 4, 5, 5D, 9 of Appendix A (40 CFR 60)

Reporting Requirements:

See Section 6 & Permit Condition 9

Applicable Regulations:

Section 1.5.15, Section 2.1.3, Part 6.1, Part 6.2, Part 6.4, Part 6.9, Part

18.5, Section 18.5.3, 40 CFR 60, 40 CFR 63

<u> </u>	Permit Conditions for Emissions Unit No. 032 Section 1 – Applicability	Regulation
1	Applicability	S. Milon
	Visible Emissions Restriction	6.9.4
	Ine Emissions Unit No. 032 in the inches	18.5
	hotear) with baghouse permitted herein is subject to and shall comply with the requirements under Section 6.9.4 "Pushing" of the Post	40 CFR 60
1	requirements under Section 6.0.4 in a subject to and shall comply with the	40 CLK 60
1	requirements under Section 6.9.4, "Pushing" of the Rules and Regulations. The permitted shall not cause or allow the discharge into the atmosphere wights again.	
1	shall not cause or allow the discharge into the atmosphere visible emissions during the pushing cycle, other than water mist or vapor, to exceed forth.	
1	pushing cycle, other than water mist or vapor, to exceed forty percent (40%) for more than 1 push per hour per battery or for more than 2 consecutive pushes 6.	
	I push per hour per battery or for more than 2 consecutive pushes from the same oven.	ın
	Compliance with the opacity standard in this condition shall be determined by conducting observations in accordance with Reference Method 9 in Apparell.	
1	observations in accordance with Reference Method 9 in Appendix A of 40 CFR 60, July 2008, as the same may be amended or revised. Individual reading 1.	3
	2008, as the same may be amended or revised. Individual readings, however, will be instaneous as opposed to 6-min averages per Mathed 0. The same may be amended or revised.	1,
1	instaneous as opposed to 6-min averages per Method 9. To comply with Title V	
	monitoring requirements, the permittee shall perform a visual observation of the emission units (Batteries No's, 1, 5, & 6) once per month. If any visible	
	units (Batteries No's, 1, 5, & 6) once per month. If any visible emissions (greater than	
	40% opacity) are observed, the permittee shall immediately	
	the emission unit to emit visible and in influentially correct the problem causing	
	actions. Within 24 hours of the countries	
	observe the emission unit. If with the corrective actions, the permittee shall again	
	complete an EPA Method 9 Visible Entire of Secret, a certified observer shall	
	establish compliance with the above	
	corrective action initiated to eliminate the control initiation. The date, time, and type of	
	corrective actions were completed shall be provided in the same record that contained the initial observation.	
	initial observation	
2	General Compliance Paguirous	
	The permittee shall be in compliance with the emissions limitations, work practice standards, and operation and maintenance requirements	40 CFR 63
	standards, and operation and phance with the emissions limitations, work practice	Charter 10
	standards, and operation and maintenance requirements in this subpart at all times, except during periods of startup, shutdown, and malfunction as defined in (2.2).	Chapter 18
3	during periods of startup, shutdown, and malfunction as defined in 63.2 of 40 CFR 63. The promite of the following startup of the following periods of startup. Shutdown, and Malfunction Plan	
	The permittee shall develop and implement a written startup, shutdown, and malfunction plan according to the provisions of 63.6(c)(3) of 40 CER 63	40 CFR 63
	plan according to the previous of the previous	Chapter 19
1	plan according to the provisions of 63.6(e)(3) of 40 CFR 63.	Chapter 18
1		40 OVED 65
	The Emissions Unit No. 032 herein is subject to the requirements as listed in Subpart CCCCC (National Emissions Standards for Hazardous Air Pall	40 <u>CFR</u> 63
	CCCCC (National Emissions Standards for Hazardous Air Pollutants for Coke Ovens) of Part 63 of Title 40 of the Code of Federal Regulations	Chapter 18
-	Part 63 of Title 40 of the Code of Federal Regulations.	
	Section 2 – Emission, Equipment, Production Requirements, Limitations and Work Practice Standards	
	Cuber Cooking Standards	
100	Subpart CCCCC - Emissions Limitation – PM	
- 10	The permittee shall not discharge to the attent	40 <u>CFR</u> 63,
	device applied to pushing emissions that exceed 0.02 pounds per ton (lb/ton) of coke if a	63.729()
		Chapter 18
- 1	For each capture system applied to pushing emissions:	40 CFR 63,
		63.7290
1	Maintain the daily average volumetric florence in a second control of the daily average volumetric florence in a second control of the daily average volumetric florence in a second control of the daily average volumetric florence in a second control of the daily average volumetric florence in a second control of the daily average volumetric florence in a second control of the daily average volumetric florence in a second control of the daily average volumetric florence in a second control of the daily average volumetric florence in a second control of the daily average volumetric florence in a second control of the daily average volumetric florence in a second control of the daily average volumetric florence in a second control of the daily average volumetric florence in a second control of the daily average in a second control of the daily	Chapter 18
	Maintain the daily average volumetric flowrate at the inlet of the control device at or above the minimum level during the initial performance test, or	•
	tever during the initial performance test, or	
1	OF THE PROPERTY OF THE PROPERT	
	3. For each capture system that uses an electric motor to drive the fan, the permittee must maintain the daily average fan motor amperes at or above the minimum level established during the initial performance.	1
- 1		1
- 1	level established during the initial performance test.	

	The	part CCCCC - Work Practice Standards	40 CFR 63,
	1 ne	following requirements are to be met for coke oven batteries with vertical flues:	63.7291
	A.		Chapter 18
	1 11.	Observe and record the opacity of fugitive pushing emissions from each	Chapter 16
	1	oven at least once every 90 days. If an oven cannot be absented to	
	1	a so-day period due to circumstances that were not reasonable.	
	1	avoidable, the permittee must observe the opacity of the first much as	
		that over following the close of the 90-day period that is capable of	
		being observed in accordance with the procedures in 63 7334(a) of 40 OPD 63	1
	1	and it must be documented why the oven was not observed within the on I	
		period. All opacity observations of fugitive pushing emissions for betterior	
		retired files filest be filede listing the procedures in 63 7334(a) of 40 CFD (2)	
	В.	at 2 of more datteries are served by the same puching agricument and total	
- 1	1	and than 90 ovens, the batteries as a unit can be considered a single better.	
1	C.	The permittee shall observe and record the onacity of fugitive pushing emissions	
ĺ		at iteast 4 consecutive pushes per hattery each day. Evolude and	1
		during which the observer's view is obstructed or obscured by interferences and	
		to the flext dydiable blish to complete the set of A puches The	
- 1		thay observe rewel than 4 consecutive pushes if the observence are	
		reasonably unavoidable; however, the permittee must observe and record as	
		many consecutive pushes as possible and document why 4 consecutive pushes	
		could not be observed. The permittee may observe and record 1 or more non-	
		Consecutive pushes in addition to any consecutive pushes observed in a day.	
1	D.	The permittee shall not alter the pushing schedule to change the sequence of	
- 1		consecutive pushes to be observed on any day. Records are to be maintained	
- 1		indicating legitimate operational reason(s) for any change in the pushing schedule	
- 1		which results in a change in the sequence of consecutive pushes observed in a	
		day.	
	Subpa	rt CCCCC - Fugitive Pushing Emissions; Corrective Action/Increase Coking Time	
	Λ.	In doing pushing observances, if the average opacity for any individual push	40 <u>CFR</u> 63,
		exceeds 30 % opacity for any short battery (less than 5 meters in height) or 35%	63.7291
- 1		opacity for any tall battery, the permittee shall take corrective action and/or	Chapter 18
		increase the coking time for that oven.	#6
1	B.	If corrective action or an increase in coking time is required, completing this	
		action or the increase in coking time must occur within 10 calendar days or the	
- 1		number of days determined using Equation 1 under 63.7291 of	
		40 CFR 63, whichever is greater:	
		30000000	
-		X = 0.55 * Y (Eq. 1)	
	(2)	Where:	
		V - Novelone C - L - L - L	
		X = Number of calendar days allowed to complete corrective action or increase	
		coking time; and	
1		Y = Current coking time for the oven, hours.	
C		Procedures for time periods, days that over (2)	
	1,51	Procedures for time periods, days that oven(s) are removed from service, and	
		demonstration that the corrective action and/or increased coking time was	
		successful or unsuccessful are contained in 63.7291(a)(5) and 63.7291(6)(i), of	
		40 CFR 63. If the corrective action/or increased coking was successful, the	
		permittee may return the oven to the 90-day reading rotation described in 63.7291(a)(1) of 40 CFR 63.	
D.	0	If the initial corrective action/or invessed at the corrective action ac	
1		If the initial corrective action/or increased coking time under 63.7291(6)(i) of	
		40 <u>CFR</u> 63, were unsuccessful, the permittee must complete additional corrective	
		action and/or increased coking time for that oven within the number of days allowed in 63.7291(a)(5) of 40 CFR 63.	
20 100-00-		anoved in 03.7291(a)(3) 01 40 CPK 03.	

	E. F.	After implementing any additional corrective action/or increased coking time required under 63.7291(a)(6)(i) or (a)(7)(ii) of 40 CFR 63, the permittee shall demonstrate that corrective action/or increased coking time was successful. If the corrective action and/or increased coking time was successful, the permittee may return the oven to the 90-day reading rotation describe in paragraph 63.7291(a)(1) of 40 CFR 63. If the corrective action and/or increased coking time was unsuccessful, the permittee must repeat the procedures in 63.7291(a)(6)(i) of 40 CFR 63, until the corrective action and/or increased coking time is successful. If at any time the permittee places places an oven on an increased coking time as a result of fugitive emissions exceeding 30% for a short battery or 35% for a tall battery, the permittee shall keep the oven on the increased coking time until the oven qualifies for decreased coking time using the procedures in paragraph 63.7291(a)(7)(ii) or (a)(7)(iii) of 40 CFR 63.	
- 1	Subpart A.	When the permittee's oven(s) fails to meet the standard (extended a line)	40 <u>CFR</u> 63, 63.7291(a)(6)(iii), 63.7921(a)(7)(i)
		average opacity for any individual push that exceeds 30% opacity for any short battery or 35% opacity for any tall battery, the permittee shall report to the permitting authority as a deviation each unsuccessful attempt at corrective action and/or increased coking time under 63.7921(a)(6)(ii) of 40 CFR 63.	and (a)(7)(ii) Chapter 18
	 	When the permittee's oven(s) fails to meet the standard (decreased coking time) average opacity for any individual push that exceeds 30% opacity for any short battery or 35% opacity for any tall battery, the permittee shall report to the permitting authority as a deviation (63.7921(a)(7)(iv) of 40 CFR 63), the second and any subsequent consecutive unsuccessful attempts on the same oven to quality for decreased coking time as described in 63.7921(a)(7)(iii) of 40 CFR 63.	
		CCCCC - Work Practice Standards - Sonking	40 <u>CFR</u> 63, 63.7294
	a	cap; Determine the cause of soaking emissions that do not ignite automatically, including emissions from raw COG leaking from the collecting main through the damper, and emissions from incomplete coking; If soaking emissions are caused by leaks from the collecting main, take corrective actions to eliminate the soaking emissions. Suggested methods for corrective actions are contained in 63.7294(a)(4) of 40 CFR 63; and	

11	Section 3 Compliance and Performance Test Methods and Procedures	
1 1	Stack Testing	40 CFR 63,
	For each control device subject to an emissions limit for particulate matter in 63.7290(a)	
	of the permittee shall conduct subsequent performance tests and the	Chapter 18
12	than twice (at ind-term and tenewal) during each term of the Title V operating powers	Chapter 10
2	1 Stack Test Flocedules—Suppart CCCC	40 CFR 63
	The test methods and other procedures for each performance test shall be conducted in	40 <u>CFR</u> 60,
-		Appendix A
3	Section 4—Operation and Maintenance Requirements	1.
J	Good Engineering Paractices & Minimize Emissions to the Level of Subpart CCCCC A. As required by 63.6(e)(1)(i) of 40 CFR 63. the Level of Subpart CCCCC	40 CFR 63,
	As required by 03.0(e)(1)(1) of 4() CFR 63, the permittee shall operate and	63.7300
	maintain the affected source (batteries), including the air pollution control and	63.7331
	monitoring equipment, in a manner consistent with good air pollution control	Chapter 18
	practices for minimizing emissions at least to the levels required by this subpart	ompter 10
	1. The permittee must prepare and operate at all times according to a	
	written operating and maintenance plan for the general operation and	
	maintenance of the existing by-product coke oven batteries. Each plan	
	associated with pushing must address the following as a minimum:	
	a. Frequency and method of recording underfire gas parameters	
	b. Frequency and method of recording battery operating	
	temperature, including measurement of individual flue and	
	cross-wall temperatures,	
	c. Procedures to prevent pushing an oven before it is fully coked	
	d. Procedures to prevent overcharging and undercharging of	
	ovens, including measurement of coal moisture, coal bulk	
	density, and procedures for determining volume of coal	
	charged,	
	e. Frequency and procedures for inspecting flues, burners, and	
	nozzles,	
j	f. The operating and maintenance plan must include requirements	
	to repair any defects or deficiencies brought on through	
20 1	inspections as describe in Permit Condition 15 of this emissions	
	unit. Repairs are to be made before the next schedule	
	inspection.	
- 1	g. For each baghouse applied to pushing emissions, the permittee	
	shall install, operate, and maintain each bag leak detection	
	system according to 63.7331 of 40 CFR 63.	
-	Section 5 – Continuous Emission Monitoring	
		40 <u>CFR</u> 63,
-	For each baghouse applied to pushing emissions from a coke oven battery, the permittee	63.7330
	shall continuously monitor the relative change in particulate matter loading using a bag	Chapter 18
	leak detection system according to requirements in 63.7331(a) of 40 CFR 63 and conduct inspections at their specified fragments are seen as a second conduct inspections.	
- 1	inspections at their specified frequency according to the requirements as follows: Monitor the pressure drop across each bankows cell each drop across each bankows cell each drop across each bankows.	
	 Monitor the pressure drop across each baghouse cell each day to ensure the pressure drop is within the normal operating range. 	
-1	Confirm that dust is being removed from the hoppers through weakly viewel	
	 Confirm that dust is being removed from the hoppers through weekly visual inspections or equivalent methods of assurance. 	
	3. Check the compressed air supply for pulse-jet baghouses each day.	
	4. Monitor cleaning cycles.	
	the state of the s	
	 Check bag cleaning mechanisms for proper functioning through monthly visual inspection or equivalent means. 	
	6. Confirm the physical integrity of the baghouse through quarterly visual	
	inspections of the baghouse interior for air leaks	
	7. Inspect fans for wear.	

	capture system applied to pushing emissions, the permittee shall install, operate, and maintain a device to measure fan motor amperage. Refer to 63.7331(g) of 40 CFR 63, for this requirement. 9. If the permittee elects the operating limit in 63.7290(b)(3(ii) of 40 CFR 63, for a capture system applied to pushing emissions, the permittee shall install, operate, and maintain a device to measure the fan motor amperes.	
15	Push Control System—Inspections and Preventive Maintenance A. The permittee shall prepare and operate at all times according to a written operating and maintenance plan for each capture system and control device applied to pushing emissions. Each plan must address at a minimum the following elements: 1. Monthly inspections of the equipment that are important to the performance of the total capture system (e.g., pressure sensors, dampers, and damper switches); These inspections must include observations of the physical appearance of the equipment (e.g., holes in ductwork or hoods, flow restrictions such a dents and soot bridging, and fan erosion). 2. Preventive maintenance for each control device, including a preventive maintenance schedule; and 3. Corrective action for all baghouses applied to pushing emissions in the event a bag leak detection system alarm is triggered, the permittee must initiate corrective action to determine the cause of the alarm within 1 hour of the alarm, initiate corrective action to correct the problem within 24 hours of the alarm, and complete the corrective action as soon as practicable. Section 6 – Recordkeeping and Reporting Requirements	
	The permittee shall submit by February 10th of each calendar year to this Department an annual summary report for the previous calendar year in a format approved by this Department of the following production information of the emissions unit permitted herein: A. The actual hours of operation; B. For each battery, the total quantity in tons of coal charged, coke produced specifying amounts in tons for both furnace and foundry; and C. The actual emissions (point and fugitive) of all regulated air pollutants as defined in Chapter 18 of the Rules and Regulations	1.5.15 2.1.3 18.5.3
	Subpart CCCCC—Reporting Requirements The permittee shall submit semiannual compliance reports each year unless notified otherwise. Each compliance report must provide information on compliance with the emissions limitations, work practice standards, and operation and maintenance requirements for all affected sources. Reporting shall be in accordance with 63.7341 of 40 CFR 63.	40 <u>CFR</u> 63 Chapter 18

18	Subpart CCCCC—Recordkeeping	
	The permittee shall keep records in accordance with the following:	40 <u>CFR</u> 63, 63.7342
9	 A. A copy of each notification and report that the permittee submitted to comply with the subpart, including all documentation supporting any initial notification of compliance status that was submitted by the permittee, and according to the requirements in 63.10(b)(2))(xiv) of 40 CFR 63; B. The records in 63.6(e)(3)(iii) through (v) of 40 CFR 63 related to startup, shutdown, and malfunction; C. Records of performance tests, performance evaluations, and opacity observations as required in 63.10(b)(2)(viii) of 40 CFR 63; D. The permittee shall keep records in 63.6(h)(6) of 40 CFR 63, for visual observations. E. The permittee shall keep records required in 63.7333 through 63.7335 of 40 CFR 63 to show continuous compliance with each emissions limitation, work practice standard, and operation and maintenance requirement that applies. 	Chapter 18
	The permittee shall keep records in a form suitable and readily available for expeditious review, according to 63.10(b)(1) of 40 CFR 63. As specified in 63.10(b)(1) of 40 CFR 63, the permittee shall keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action,	40 <u>CFR</u> 63, 63.7343 Chapter 18
	The permittee shall keep each record onsite for a least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record in accordance with 63.10(b)(1) of 40 CFR 63. The permittee can keep the records offsite for the remaining 3 years.	¥

Emissions Unit No.:

034

Company:

ABC Coke

Source Description:

Ammonium Sulfate Manufacturing

Operating Schedule:

24 hours/day, 7 days/week, and 52 weeks/year

Type and quantity of fuel used:

Primary:

Secondary:

N/A

Pollutants Emitted:

Pollutant	Regulatory Emission Limit	
Visible Emissions (VE)		Applicable Standard
	20 % Opacity	Section 6.1.1
Particulate Matter (PM)	17.19 pounds per hour (12.5 tons/hr process rate)	Part 6.4
Particulate Matter (PM)	0.30 lb/ton of ammonium sulfate produced	-
Visible Emissions (VE)		Subpart PP
VISIOLE EMISSIONS (VE)	15% Opacity (exhaust gases)	Subpart PP

Pollution Control Device:

Baghouse

Continuous Emission Monitors:

None

Continuous Compliance Determiner:

Monitoring of Operation Per Subpart PP

Title V Monitoring:

Condition 2

EPA Reference Test Methods:

40 CFR 60, Appendix A

Reporting Requirements:

Condition No. 6

Applicable Regulations:

Section 1.5.15; Section 2.1.3; Part 6.1; Section 6.1.1; Part 6.2; Part 18.5

Section 18.5.3; Chapter 18, 40 CFR 60

	Section 6 Recordkeeping and Reporting Requirements	T		
6	Department Required Annual Report Requirement			
	The permittee shall submit by February 10th of each calendar year to this Department an	1.5.15		
	annual summary report for the previous calendar year in a format approved by this	18.5.3		
	Department of the following production information of the emissions unit permitted herein:			
	A. The actual hours of operation of the ammonium sulfate manufacturing system;			
	B. The actual emissions (point and fugitive) of all regulated air pollutants as defined in Chapter 18 of the Rules and Regulations; and			
	C. The quantity of material processed annually.			